



CREATIVE MEDIA INC/SUNREX-22/13-14



SAHIL ELECTRONICS
 208, 2nd. FLOOR, R-22,
 KHANEJA COMPLEX, VIKAS MARG, SHAKARPUR
 NEW DELHI- 110092 (INDIA)

Tel : (011)-22443951 E-mail: sahil2001@yahoo.com
 (011)-22450669
 (011)-22464894 Mobile :
 Fax: (011)-22528193 (0)- 9899153952

Hotline: (011)-22059465, 22059466
 Visit us: www.sahilelectronics.com



LEADING THE NEW
POWER ELECTRONICS



SunRex®

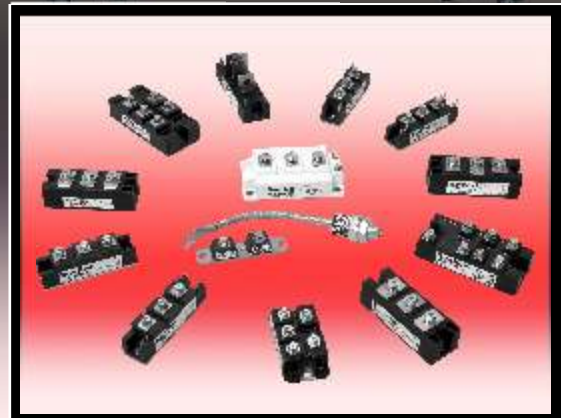
SAFETY WORLD WIDE



21st. CENTURY

POWER
SEMICONDUCTORS

- MOSFET MODULES
- THYRISTOR MODULES
- IGBT MODULES
- DIODE MODULES
- TRANSISTOR MODULES
- TRIAC MODULES



SELECTION GUIDE

MESSAGE



SunRex is known Worldwide as a **Leading Manufacturers** of Power Semiconductors & Developed below Products:-

- ☞ Power Mosfet Modules
- ☞ Darlington Transistor Modules
- ☞ Power IGBT Modules
- ☞ Hic for Driving IGBT's
- ☞ Fast Recovery Diodes
- ☞ Diode Modules
- ☞ Three Phase Diode Modules (Bridge)
- ☞ Three Phase Diode + Thyristors
- ☞ Three Phase Diode Modules (Half Bridge)
- ☞ Stud Type Diodes
- ☞ Thyristor Module "G.H" "F" Series
- ☞ Anti-parallel Thyristor Modules
- ☞ 3 Phase Thyristor Modules (Half Bridge)
- ☞ Bridge Type Thyristors
- ☞ Isolated Type Thyristors
- ☞ TO 220 Full Molded Triac "TMG"
- ☞ Isolated Type Triac "TG"

Majority the **Power Semiconductor** indicated in **Catalogue** are available in **Ex-Stock** against **Rupee** Payment. Ask for our Competitive Prices.

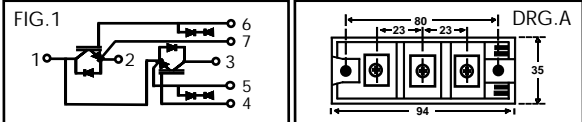


COMPANY PROFILE

IGBT MODULES

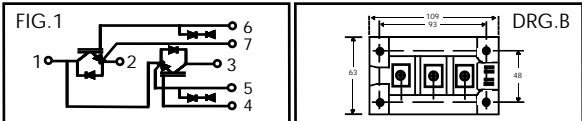
SunRex

600V SERIES



600V DUAL PACK

TYPE	A	SWITCHING TIME (US)		FIG. NO.	DRG. NO.
		Td(on)	Td(off)		
GCA75BA60	75	0.4	0.8	1	A
GCA100BA60	100	0.4	0.8	1	A
GCA150BA60	150	0.4	0.8	1	A
GCA200BA60	200	0.4	0.8	1	B
GCA300BA60	300	0.4	0.8	1	B



1200V DUAL PACK

TYPE	A	SWITCHING TIME (US)		FIG. NO.	DRG. NO.
		Td(on)	Td(off)		
GCA75AA120	75	0.35	0.3	1	A
GCA100AA120	100	0.35	0.4	1	A
GCA150AA120	150	0.35	0.5	1	B
GCA200AA120	200	0.35	0.5	1	B
GCA300AA120	300	0.35	0.6	1	B

WIDELY USED IN UPS, INVERTERS, WELDING MACHINES & CONTROL PANELS

DIRECT REPLACEMENT OF MITSUBISHI - JAPAN CM SERIES, FUJI JAPAN 1MBI & 2MBI SERIES, TOSHIBA- JAPAN MG SERIES



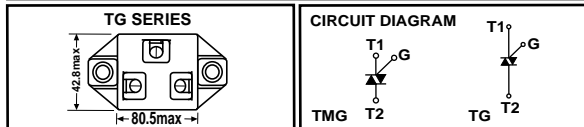
TRIAC MODULES

TG & TMG SERIES



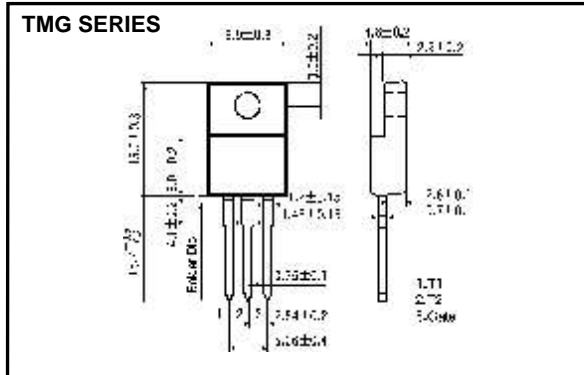
ISOLATED TYPE

TYPE	V _{DRM} /V _{RRM}		I _{T(RMS)}		I _{TSM} A(60HZ)	I ² T A ² S (2-10ms)	(Dv/dt) _c V/μS
	V	A	°C	°C			
TG16C(E)	200/600	16	83	160	106	6	
TG25C(E)	200/600	25	74	250	260	6	
TG35C(E)	200/600	35	58	330	450	5	
TG70AA	400/600	70	58	1200	6000	6	



To 220 FULL MOLDED TYPE

TYPE	V _{DRM} /V _{RRM}		I _{T(RMS)}		I _{TSM} A(60HZ)	I ² T A ² S (2-10ms)	(Dv/dt) _c V/μS
	V	A	°C	°C			
TMG5C40/60F	400/600	5	100	55	12.6	5	
TMG8C40/60F	400/600	8	89	88	32	10	
TMG10C40/60F	400/600	10	83	110	50	10	
TMG12C40/60F	400/600	12	79	130	71	10	
TMG16C40/60F	400/600	16	68	170	120	10	



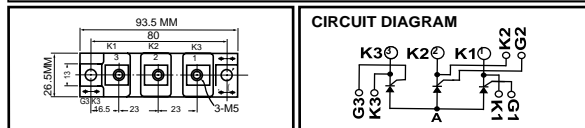
USED IN INDUCTION MOTORS, POWER CIRCUITS, AC/DC DRIVES/PANELS

DIRECT REPLACEMENT OF SEMIHOW-JAPAN HTS139-600 SERIES
VISHAY-USA K3Q20P, ST-U.K. T12, JAMECO-U.K. Q6008L5 SERIES

THYRISTOR MODULES

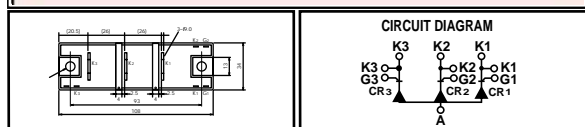
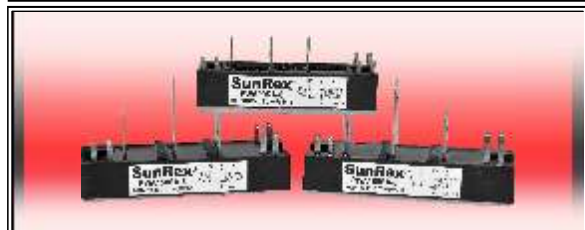


PWB & PWA SERIES



THREE PHASE (HALF BRIDGE) in 8-10 or 16-20 ohms

TYPE	V _{DRM} /V _{RRM}		I _{T(AV)}		I _{T(RMS)}	
	V	A	°C	A	°C	
PWB 60 A	300-600	60	123	94	123	
PWB 80 A	300-600	80	116	125	116	
PWB 100 A	300-600	100	114	157	114	
PWB 130 A	300-600	130	105	204	105	
PWB 200 A	300-600	200	121	314	121	



THREE PHASE (HALF BRIDGE) in 8-10 or 16-20 ohms

TYPE	V _{DRM} /V _{RRM}		I _{T(AV)}		I _{T(RMS)}	
	V	A	°C	A	°C	
PWA 60 SA	300-600	60	116	125	116	
PWA 90 SA	300-600	90	114	157	114	
PWA 150 SA	300-600	150	105	204	105	
PWA 200 SA	300-600	200	121	314	121	
PWA 300 SA	300-600	300	128	330	140	

DIRECT REPLACEMENT OF MITSUBISHI TM90SA-6, TM150SA-6

WIDELY USED IN PANASONIC-JAPAN, ADVANI-INDIA, SANSHA-JAPAN
ESAB-INDIA, MILLER- GERMANY, G&P- KOREA WELDING MACHINES.



SunRex

THYRISTOR MODULES

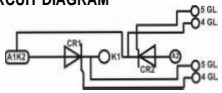
TRANSISTOR MODULES



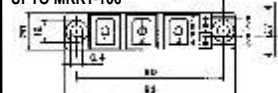
MKKT SERIES



CIRCUIT DIAGRAM



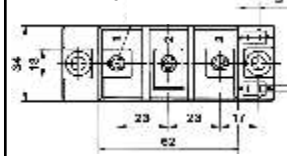
UPTO MKKT-106



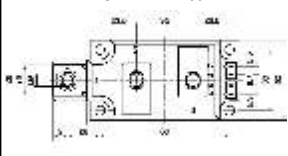
SINGLE PHASE

TYPE	V _{DRM} /V _{RRM}	at Temp	
	V	A	°C
MKKT 25	1200 - 2800	85	140
MKKT 46	1200 - 2800	85	140
MKKT 56	1200 - 2800	85	140
MKKT 60	1200 - 2800	85	140
MKKT 75	1200 - 2800	85	140
MKKT 95	1200 - 2800	85	140
MKKT 106	1200 - 2800	85	140
MKKT 142	1200 - 2800	85	140
MKKT 162	1200 - 2800	85	140
MKKT 200	1200 - 2800	85	140
MKKT 210	1200 - 2800	85	140
MKKT 250	1200 - 2800	85	140
MKKT 310	1200 - 2800	85	140
MKKT 330	1200 - 2800	85	140
MKKT 430	1200 - 2800	85	140
MKKT 500	1200 - 2800	85	140
MKKT 550	1200 - 2800	85	140

ABOVE MKKT-142



ABOVE MKKT-200



WIDELY USED IN POWER CIRCUITS, AC/DC DRIVES & CONTROL PANELS

DIRECT REPLACEMENT OF MITSUBISHI- JAPAN TM-DZ SERIES, IXYS MCC SERIES, EUPAC- GERMANY TT SERIES, IR- ITALY IRKT SERIES

QF, QCA & SQD SERIES

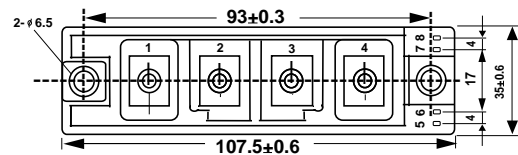


THREE PHASE BRIDGE TYPE

TYPE	I _c A	V _{DRM} /V _{RRM}	Switching Time (μS)		
		V	T _{on}	T _s	T _f
QF15AA	15	400,600	1	12	2
QF20AA	20	400,600	1	12	2
QF30AA	30	400,600	1	12	2
QF50AA	50	400,600	1	12	2

DARLINGTON TYPE

TYPE	I _c A	V _{DRM} /V _{RRM}	Switching Time(μS)		
		V	T _{on}	T _s	T _f
QCA50A	50	400,600	1	12	2
QCA50AA	50	1000,1200	2.5	15	3
QCA75A	75	400,600	1	12	3
QCA75AA	75	1000,1200	2.5	15	3
QCA100A	100	400,600	2	12	3
QCA100AA	100	1000,1200	3	15	3
QCA150A	150	400,600	2	12	3
QCA150AA	150	1000,1200	3	15	3
QCA200A	200	400,600	2	12	3
QCA200AA	200	1000,1200	3	15	3
SQD300AA	300	1000,1200	3	15	3
SQD400AA	400	1000,1200	3	17	3



WIDELY USED IN VVVF & CVCF INVERTER CIRCUITS

DIRECT REPLACEMENT OF MITSUBISHI- JAPAN QM SERIES, FUJI JAPAN 2DI & 6DI SERIES, POWEREX- USA KED/KE/KD/KS SERIES



SunRex

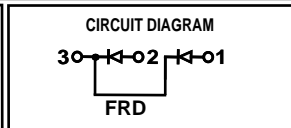
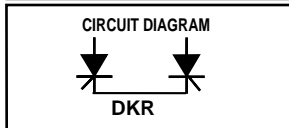
SCHOTTKY DIODES

CAPSULE THYRISTORS

SunRex

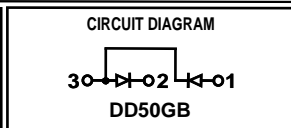
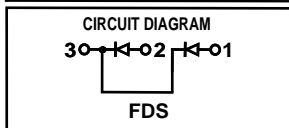


FRD, DKR & FDS SERIES



FAST RECOVERY TYPE

TYPE	V _{DRM} /V _{R_{RRM}}	At Temp	
	V	A	°C
FRD100AA	400 - 600	100	78
FRD100BA	600	100	94
FRD100CA	1000 - 1200	100	78
DKR100AA60	600	100	133
DKR150AA60	600	150	133
DKR200AA60	600	200	133
DKR400AB60	600	400	133



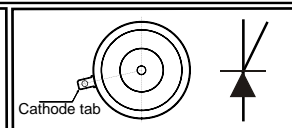
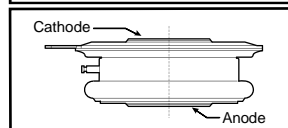
SOFT RECOVERY TYPE

TYPE	V _{DRM} /V _{R_{RRM}}	At Temp	
	V	A	°C
DD50GB-L	400 - 600	50	106
DD50GB-M	400 - 600	50	98
FDS100AA	400 - 600	100	78
FDS100BA	600	100	94

WIDELY USED IN WELDING MACHINES, AC DRIVES & CONTROL PANELS

DIRECT REPLACEMENT OF VISHAY- USA VSKD SERIES, HC-KOREA MBRP SERIES, DACO-TAIWAN MURP SERIES & SS-USA MBR SERIES

PC & DC SERIES



PHASE CONTROL (INVERTER GRADE)

TYPE	V _{DRM} /V _{R_{RRM}}	IT(AV)Th A	IT SM 10ms	Dc/dt	Di/dt
	V				
PC200A	1000-5000	200	2.5	300	100
PC300A	1000-5000	300	3.5	300	100
PC400A	1000-5000	400	5.0	300	100
PC500A	1000-5000	500	6.4	300	100
PC708A	1000-5000	708	8.0	300	100
PC855A	1000-5000	855	12.0	300	100
PC944A	1000-5000	944	13.0	300	100
PC1059A	1000-5000	1059	18.0	300	100
PC1120A	1000-5000	1120	20.0	300	100

PHASE CONTROL (CONVERTER GRADE)

TYPE	V _{DRM} /V _{R_{RRM}}	IT(A)	At Tc	I _{RMS}	I _{FSM}
	V				
DC504A	1000-5000	504	60	717	5.5
DC604A	1000-5000	604	60	1109	6.5
DC703A	1000-5000	703	55	1050	9.5
DC807A	1000-5000	807	60	1220	9.0
DC904A	1000-5000	904	60	1410	11.2
DC1279A	1000-5000	1279	60	1709	12.0
DC1478A	1000-5000	1478	60	3257	22.0
DC1678A	1000-5000	1678	60	3492	29.0
DC1875A	1000-5000	1875	60	4406	36.8
DC1974A	1000-5000	1974	60	5655	19.0
DC2015A	1000-5000	2015	60	5858	19.0

WIDELY USED IN POWER CIRCUITS, AC/DC DRIVES & CONTROL PANELS

DIRECT REPLACEMENT OF POSEICO - ITALY AT SERIES, EUPAC GERMANY , WESTCODE-U.K. N SERIES, SEMIKRON SKT SERIES



FLAT THYRISTORS

DIODE MODULES

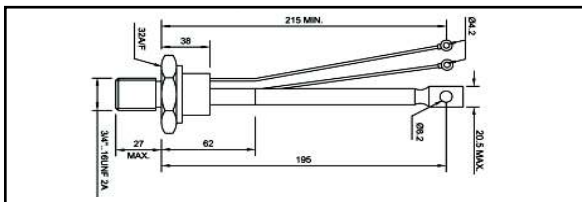


T SERIES



STUD TYPE

TYPE	V_{DRM}/V_{RRM}	$I_{T(AV)}$	PACKAGE
	V		
T 16	1200-3000	16	TO-48
T 25	1200-3000	25	TO-48
T 40	1200-3000	40	TO-65
T 50	1200-3000	50	TO-65
T 70	1200-3000	70	TO-65
T 70	1200-3000	70	TO-94
T 110	1200-3000	110	TO-94
T 125	1200-3000	125	TO-94
T 150	1200-3000	150	TO-93
T 160	1200-3000	160	TO-93
T 200	1200-3000	200	TO-93
T 250	1200-3000	250	TO-118
T 300	1200-3000	300	TO-118
T 370	1200-3000	370	TO-118
T 400	1200-3000	400	U
T 500	1200-3000	500	U



USED IN CONTROL PANELS, POWER CIRCUITS, AC/DC DRIVES/PANELS

DIRECT REPLACEMENT OF POWEREX- USA PMT SERIES, HITACHI JAPAN BT SERIES, IXYS- GERMANY PT SERIES, IR- ITALY NC SERIES

DF, CVM & DD SERIES




THREE PHASE

TYPE	V_{DRM}/V_{RRM}	I_{dc}		I_{FSM} A(60HZ)
	V	A	°C	
DF20AA	1200-1600	20	119	240
DF30AA	1200-1600	30	117	300
DF40AA	1200-1600	40	117	700
DF60AA	1200-1600	60	112	1000
DF75AA	1200-1600	75	100	1000
DF100AA	1200-1600	100	102	1000
DF150AA	1200-1600	150	94	1100
DF200AA	1200-1600	200	96	1200
DF250AA	1200-1600	250	92	1200


SINGLE PHASE

TYPE	A	V
FDF60AA160	60	1600




DIODE+THYRISTOR

TYPE	A	V
CVM50BB160	50	1600
CVM100BB160	100	1600




STUD TYPE

TYPE	A	V
FR200U120	200	1200



NUT TYPE

TYPE	A	V
DD100KB160	100	1600



USED IN CONTROL PANELS, POWER CIRCUITS, AC/DC DRIVES/PANELS

DIRECT REPLACEMENT OF FUJI- JAPAN 6 RI SERIES, IR- ITALY MT SERIES, POWEREX-USA ME SERIES, MITSUBISHI- JAPAN RM SERIES