



SCOMES

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MRS400.16 INSULATED DIODE MODULE

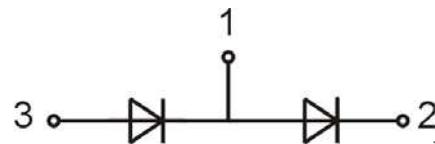
Output Current **400 A**
V_{RRM}/V_{DRM} **1600 V**

Features:

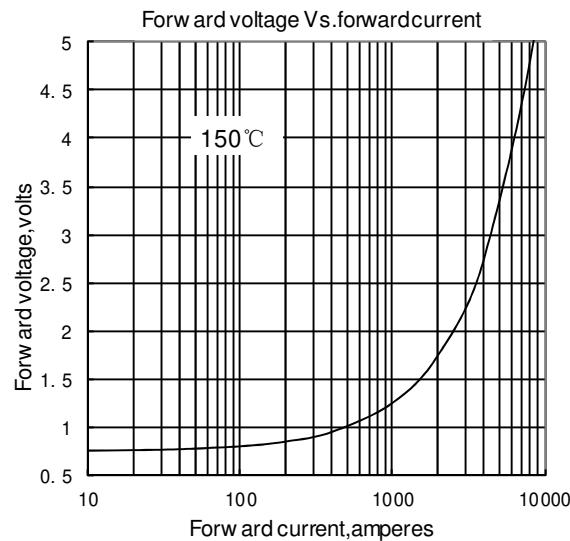
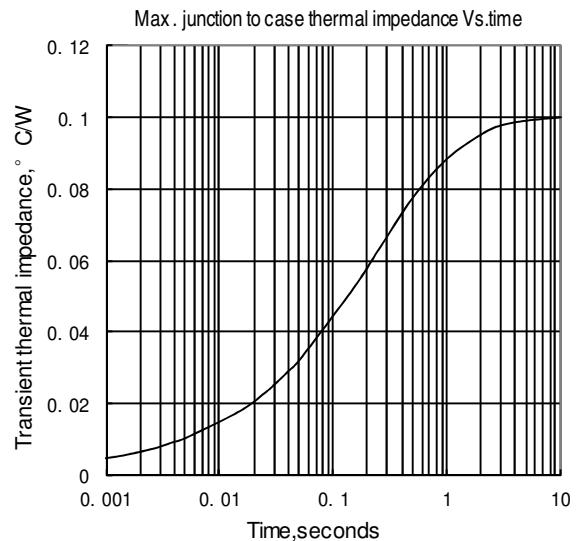
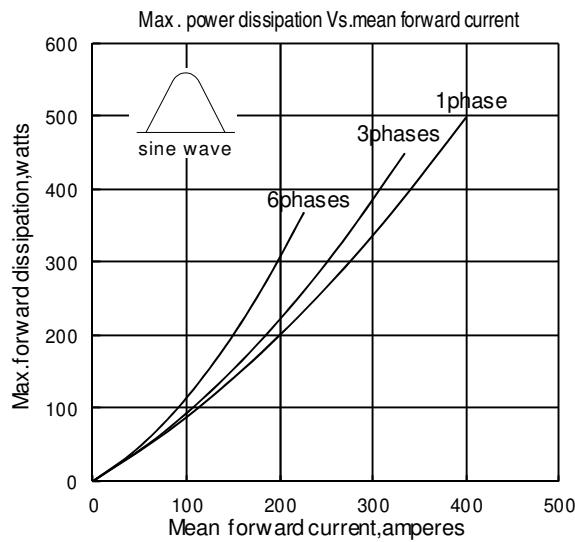
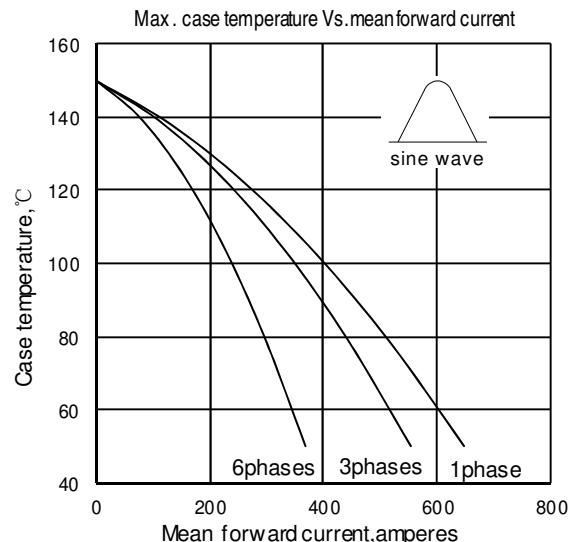
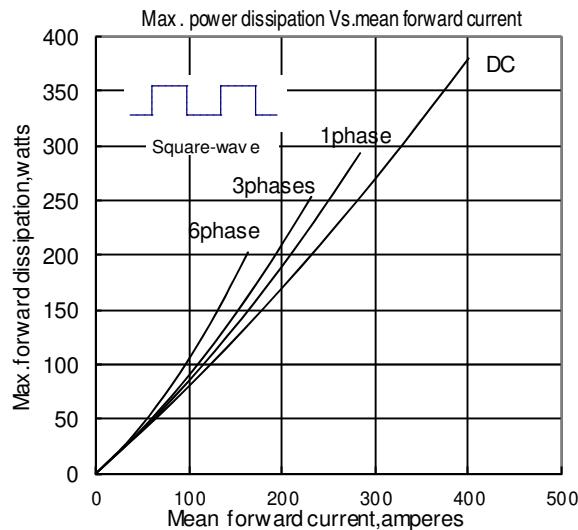
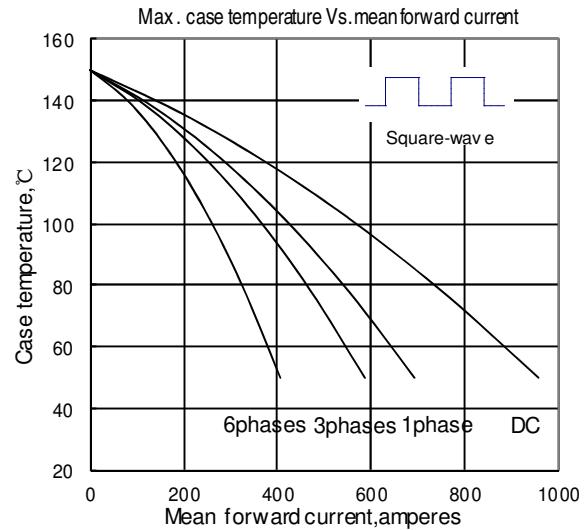
- Isolated mounting base 2500V~
- Pressure contact technology with increased power cycling capability
- UL file n° E312789

Typical Applications

- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T _J (°C)	VALUE			UNIT
				Min	Type	Max	
I _{F(AV)}	Mean forward current	180° half sine wave 50Hz Single side cooled, T _C =100°C	150			400	A
I _{F(RMS)}	RMS forward current		150			628	A
I _{RRM}	Repetitive peak current	at V _{RRM}	150			30	mA
I _{FSM}	Surge forward current	10ms half sine wave V _R =0.6V _{RRM}	150			13.0	kA
I ² t	I ² t for fusing coordination					845	A ² s*10 ³
V _{FO}	Threshold voltage		150			0.75	V
r _F	Forward slope resistance					0.50	mΩ
V _{FM}	Peak forward voltage	I _{FM} =1200A	25			1.48	V
R _{th(j-c)}	Thermal resistance Junction to case	SiN 180° (per Diode)				0.10	°C /W
R _{th(c-h)}	Thermal resistance case to heatsink	(per Diode)				0.02	°C /W
V _{iso}	Isolation voltage	50Hz, R.M.S, t=1min, I _{iso} :1mA(max)		3000			V
F _m	Terminal connection torque(M10)				12.0		N·m
	Mounting torque(M6)				6.0		N·m
T _{vj}	Junction temperature			-40		150	°C
T _{stg}	Stored temperature			-40		125	°C
W _t	Weight				1275		g


Fig.1

Fig.2

Fig.3

Fig.4

Fig.5

Fig.6

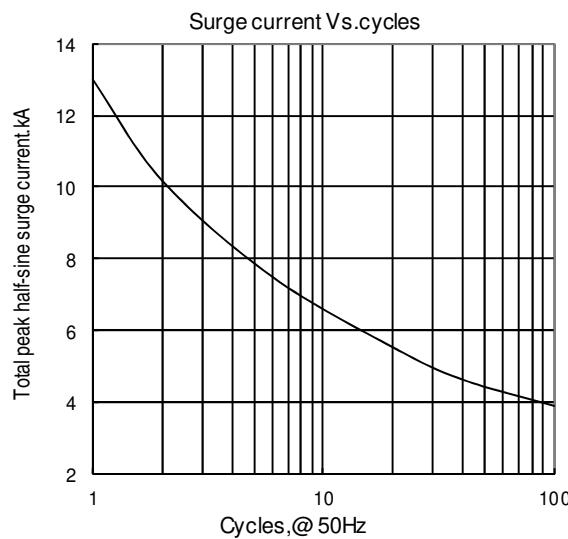


Fig.7

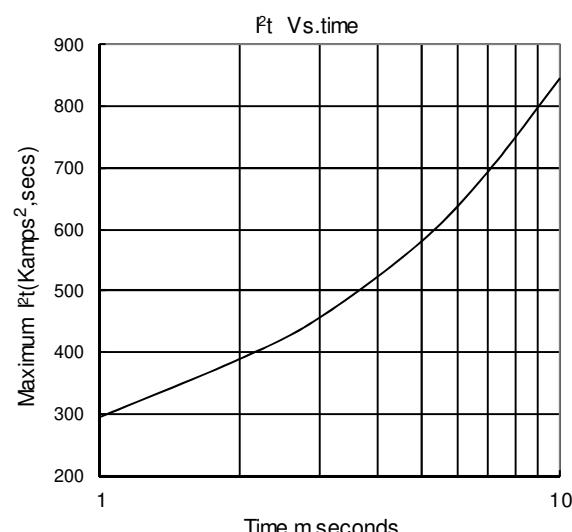


Fig.8

