TECHSEM

Features：

- Isolated mounting base 3600V~
- Pressure contact technology with Incrtased power cycling capability
- Space and weight savings

Typical Applications

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

$I_{F(AV)}$	**135A**
V_{RRM}	**2600~3600V**
I_{FSM}	**3.90 A×10³**
I^2t	**76 A² S∗10³**

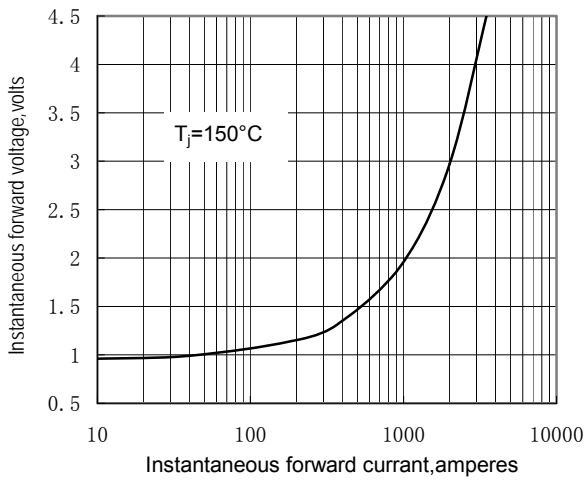| SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_j(°C)	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled,T_C=100°C	150			135	A
$I_{F (RMS)}$	RMS forward current		150			212	A
V_{RRM}	Repetitive peak reverse voltage	V_{RRM} tp=10ms V_{RsM}= V_{RRM}+100V	150	2600		3600	V
I_{RRM}	Repetitive peak current	at V_{RRM}	150			20	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0.6V_{RRM}	150			3.90	KA
I^2t	I^2T for fusing coordination					76	A²s*10³
V_{FO}	Threshold voltage		150			0.95	V
r_F	Forward slop resistance					1.01	mΩ
V_{FM}	Peak forward voltage	I_{FM}=410A	25			1.98	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180⁰ sine，Single side cooled				0.290	°C /W
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180⁰ sine，Single side cooled				0.08	°C /W
V_{iso}	Isolation voltage	50Hz,R.M.S,t=1min,I_{iso}:1mA(max)		3600			V
F_m	Terminal connection torque(M6)				6.0		N·m
	Mounting torque(M6)				6.0		N·m
T_{stg}	Stored temperature			-40		125	°C
W_t	Weight				320		g
Outline	231F3						

Peak forward Voltage Vs.Peak forward Current

Fig.1
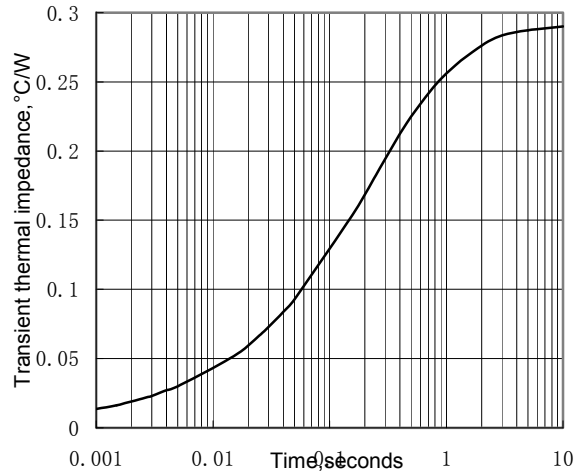
Max. junction To case Thermai Impedance Vs.Time

Fig.2
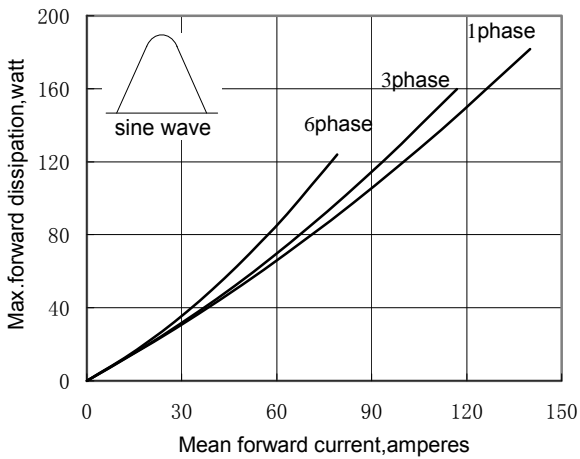
Max. Power Dissipation Vs.Mean forward Current

Fig.3
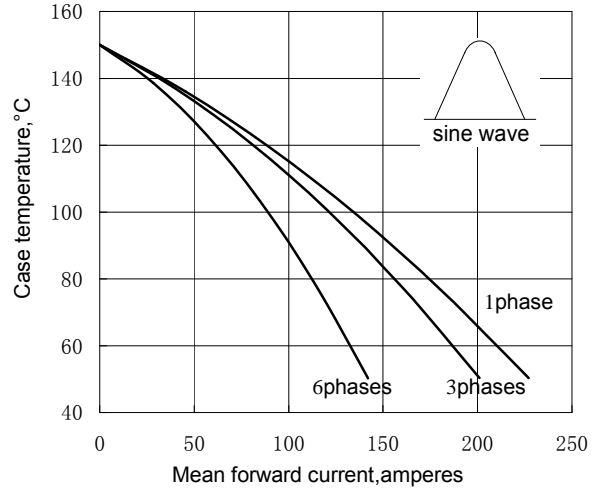
Max. case Temperature Vs.Mean forward Current
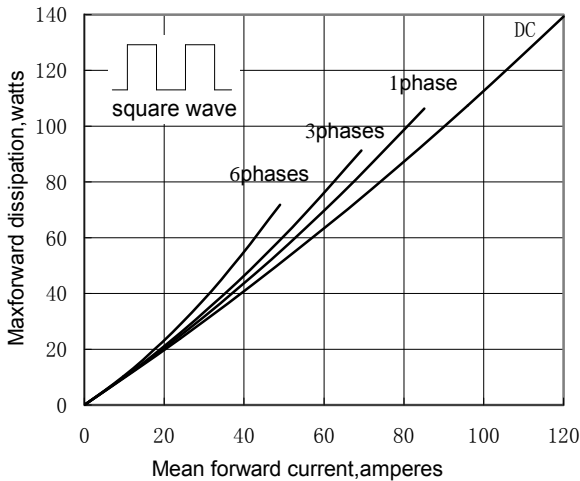

Fig.4

Max. Power Dissipation Vs.Mean forward Current
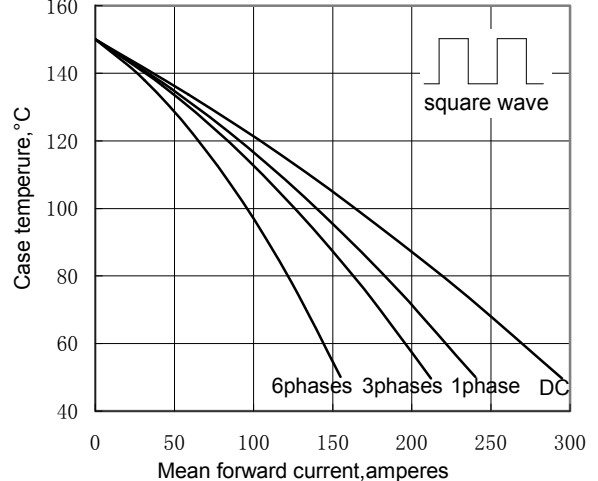

Fig.5

Max. case Temperature Vs.Mean forward Current

Fig.6

Surge Current Vs.Cycles
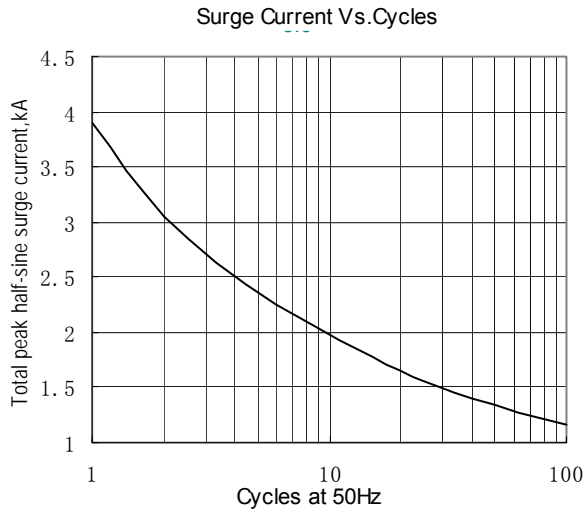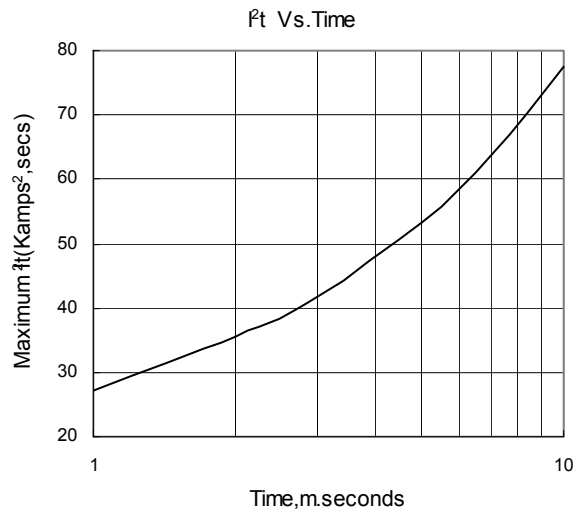

Fig.7

I²t Vs.Time

Fig.8

Outline:

231F3