

#### Features

- Low forward voltage drop
- Soft recovery
- Hermetic metal cases with ceramic insulators

$I_{F(AV)}$       **340A**  
 $V_{RRM}$         **1100~2000V**  
 $t_{rr}$             **2.0μs**



#### Typical Applications

- Inverters and choppers
- AC. motor control
- Snubber and free-wheeling diodes

SYMBOL	CHARACTERISTIC	TEST CONDITIONS		T <sub>J</sub> (°C)	VALUE			UNIT	
					Min	Type	Max		
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled,	T <sub>C</sub> =70°C	125			340	A	
$V_{RRM}$	Repetitive peak reverse voltage	tp=10ms		125	1100		2000	V	
$I_{RRM}$	Repetitive peak current	at V <sub>RRM</sub>		125			16	mA	
$I_{FSM}$	Surge forward current	10ms half sine wave		125			5.4	kA	
$I^2t$	I <sup>2</sup> t for fusing coordination	V <sub>R</sub> =0.6V <sub>RRM</sub>					146	A <sup>2</sup> s*10 <sup>3</sup>	
$V_{FO}$	Threshold voltage			125			1.48	V	
$r_F$	Forward slope resistance						0.65	mΩ□	
$V_{FM}$	Peak forward voltage	I <sub>FM</sub> =600A, F=5.0kHz		125			1.87	V	
$I_{rm}$	Reverse recovery current			125		50		A	
$t_{rr}$	Reverse recovery time	I <sub>FM</sub> =500A, tp=2000μs, -di/dt=60A/μs, V <sub>R</sub> =50V				2.0			μs
$Q_{rr}$	Recovery charge					50			μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled					0.080	°C/W	
$R_{th(c-h)}$	Thermal resistance case to heat sink	Clamping force 5.0kN					0.020		
$F_m$	Mounting force				3.3		5.5	kN	
$T_{stg}$	Stored temperature				-40		160	°C	
$W_t$	Weight					60		g	
Outline									

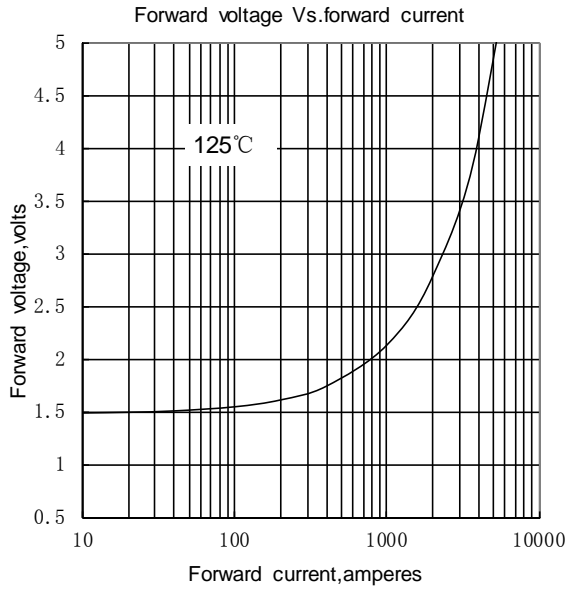


Fig.1

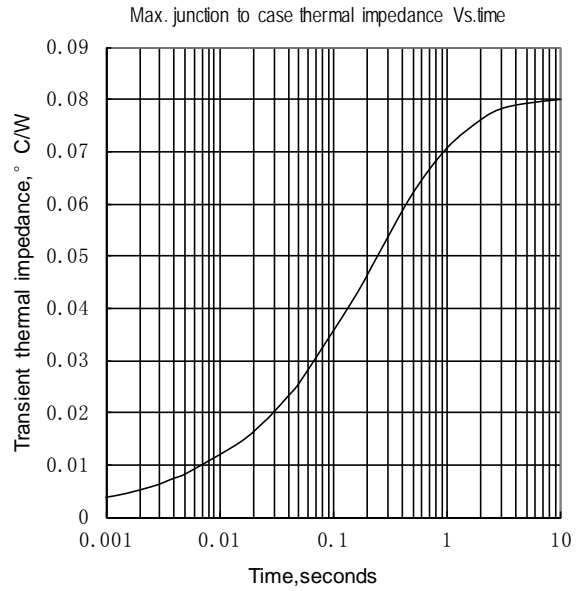


Fig.2

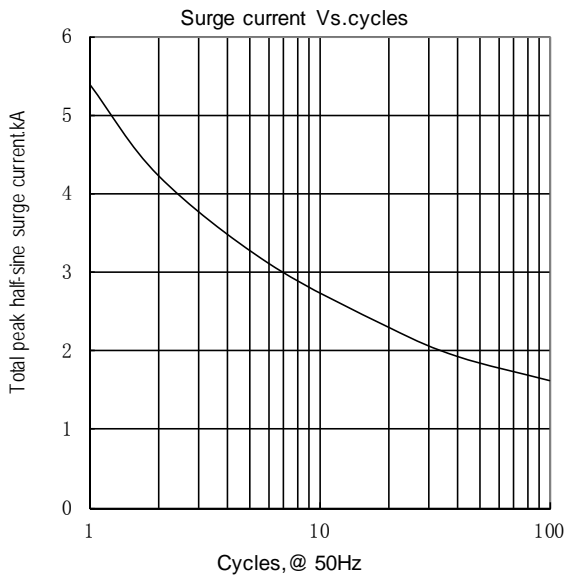


Fig.3

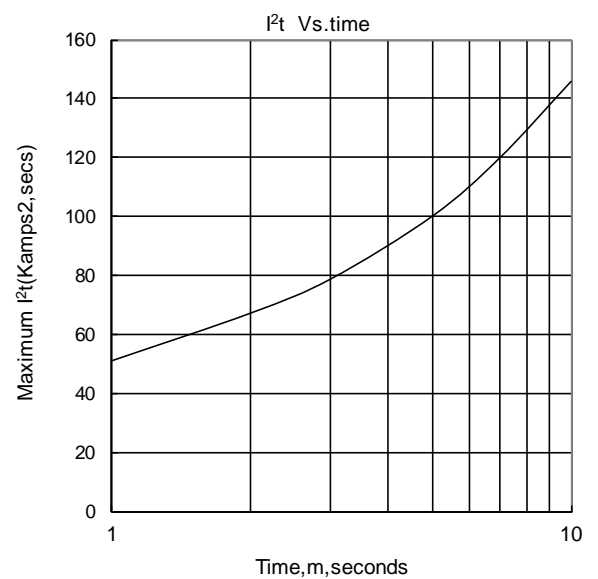


Fig.4

Outline:

