

Features

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

Typical Applications

- Inverters and choppers
- Motor control
- Snubber and free-wheeling diodes

$I_{F(AV)}$ **480A**
 V_{RRM} **4000~5000V**
 t_{rr} **6.0μs**



SYMBOL	CHARACTERISTIC	TEST CONDITIONS		T _j (°C)	VALUE			UNIT	
					Min	Type	Max		
I _{F(AV)}	Mean forward current	180° half sine wave 50Hz Double side cooled,	T _C =70°C	125			480	A	
V _{RRM}	Repetitive peak reverse voltage	tp=10ms		125	4000		5000	V	
I _{RRM}	Repetitive peak current	at V _{RRM}		125			50	mA	
I _{FSM}	Surge forward current	10ms half sine wave		125			6.5	kA	
I ² t	I ² t for fusing coordination	V _R =0.6V _{RRM}						211	A ² s*10 ³
V _{FO}	Threshold voltage			125			1.89	V	
r _F	Forward slope resistance							1.18	mΩ
V _{FM}	Peak forward voltage	I _{FM} =1000A, F=15kN		125			3.07	V	
I _{rm}	Reverse recovery current			125		240		A	
t _{rr}	Reverse recovery time	I _{FM} =500A, tp=2000μs, -di/dt=60A/μs, V _R =50V				6			μs
Q _{rr}	Recovery charge					720			μC
R _{th(j-c)}	Thermal resistance Junction to case	DC double side cooled Clamping force 15kN					0.035	°C/W	
R _{th(c-h)}	Thermal resistance case to heat sink						0.008		
F _m	Mounting force				10		20	kN	
T _{stg}	Stored temperature				-40		160	°C	
W _t	Weight					240		g	
Outline	P39								

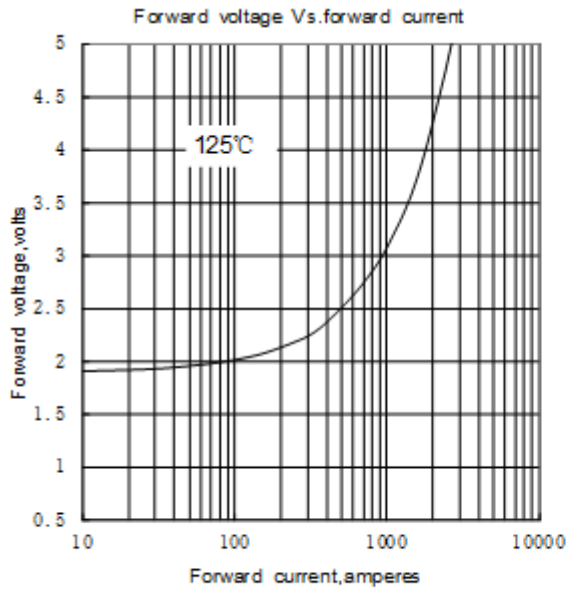


Fig.1

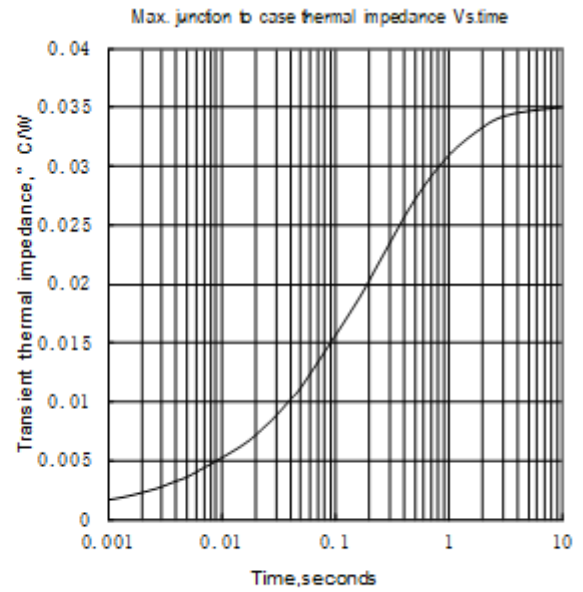


Fig.2

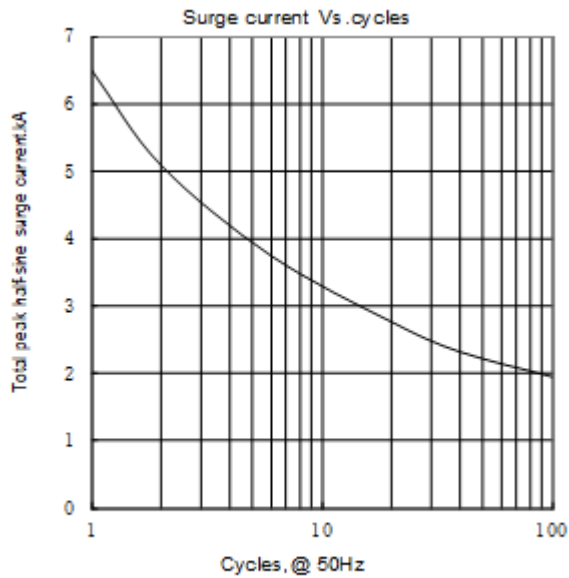
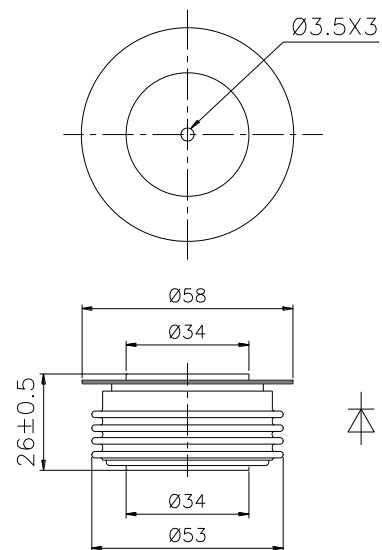


Fig.3



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