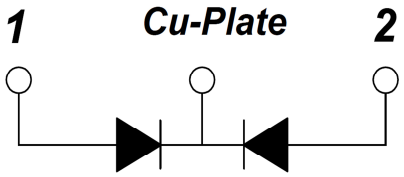
PRODUCT FEATURES

- Ultrafast Recovery Time
- Low Recovery Loss
- Low Forward Voltage
- Low Leakage Current
- Low Inductance Package



APPLICATIONS

- Inversion Welder
- Uninterruptible Power Supply
- Plating Power Supply
- Ultrasonic Cleaner and Welder
- Converter & Chopper
- PFC



ABSOLUTE MAXIMUM RATINGS

T_C=25°C unless otherwise specified

Symbol	Parameter/Test Conditions		Values	Unit
V_R	Maximum D.C. Reverse Voltage		100	V
V_{RRM}	Maximum Repetitive Reverse Voltage			
$I_{F(AV)}$	Average Forward Current	T_C=110°C, Per Diode	200	A
		T_C=110°C, Per Moudle	400	
$I_{F(RMS)}$	RMS Forward Current	T_C=110℃, Per Diode	280	
I_{FSM}	Non Repetitive Surge Forward Current	T_J=45℃,t=10ms,Sine,peak value	1500	
		T_J=45℃,t=8.3ms,Sine,peak value	1650	
I^2t	For Fusing	T_J=45℃,t=10ms,Sine,peak value	11250	A^2S
		T_J=45℃,t=8.3ms,Sine,peak value	11290	
P_D	Power Dissipation		694	W
T_J	Junction Temperature		-40 to +150	℃
T_{STG}	Storage Temperature Range		-40 to +125	℃
Torque	Module to Sink	Recommended（M6）	3～4.7	Nm
Torque	Module Electrodes	Recommended（M6）	3～4.7	Nm
R_{thJC}	Junction to Case Thermal Resistance(Per Diode)		0.18	℃ /W
Weight			92	g

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ELECTRICAL CHARACTERISTICS

T_C =25°C unless otherwise specified

Symbol	Parameter/Test Conditions		Min.	Typ.	Max.	Unit
I_{RM}	Maximum Reverse Leakage Current	V_R = 100V			1	mA
		V_R = 100V, T_J = 125℃			10	
V_F	Forward Voltage	I_F=200A		1.0	1.2	V
		I_F=200A,T_J=125℃		0.9		
trr	Reverse Recovery Time (I_F = 1A, dI_F/dt = -200A/μs, V_R = 30V)			55		ns
trr	Reverse Recovery Time	I_F=200A,V_R =50V,		65		ns
I_{RRM}	Maximum Reverse Recovery Current	dI_F/dt = -200A/μs		6		A
trr	Reverse Recovery Time	I_F= 200A,V_R =50V,		70		ns
I_{RRM}	Maximum Reverse Recovery Current	dI_F/dt = -200A/μs ,T_J=125℃		7		A

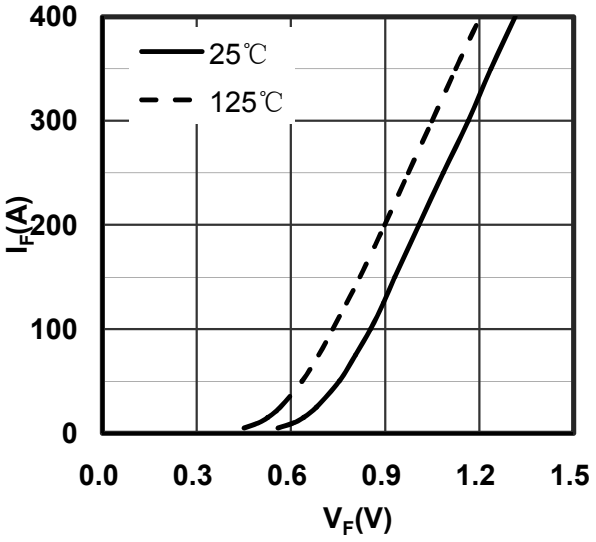


Figure 1. Forward Voltage Drop vs Forward Current

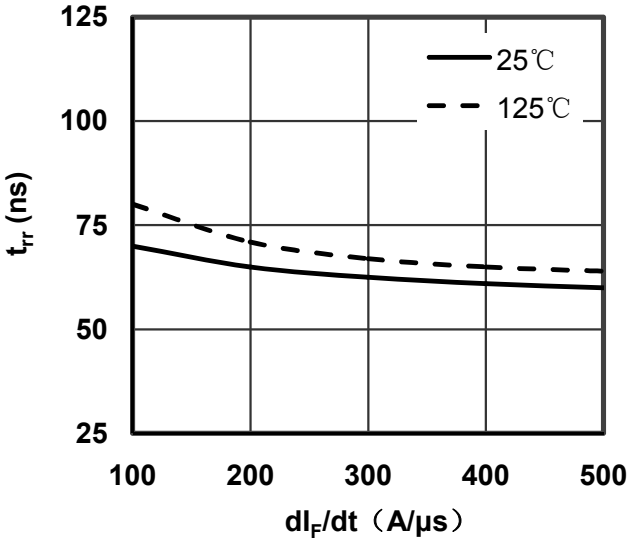


Figure 2. Reverse Recovery Time vs dI_F/dt

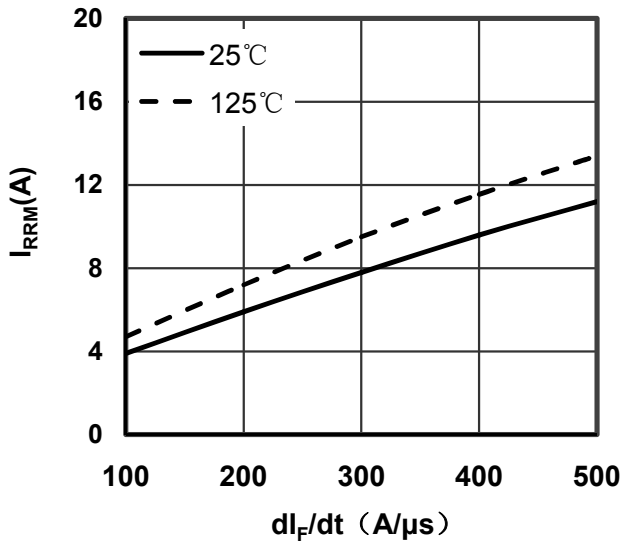


Figure 3. Reverse Recovery Current vs dI_F/dt

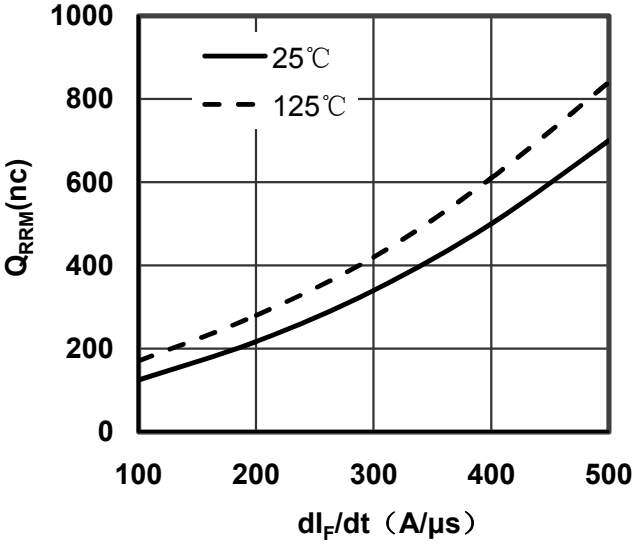


Figure 4. Reverse Recovery Charge vs dI_F/dt

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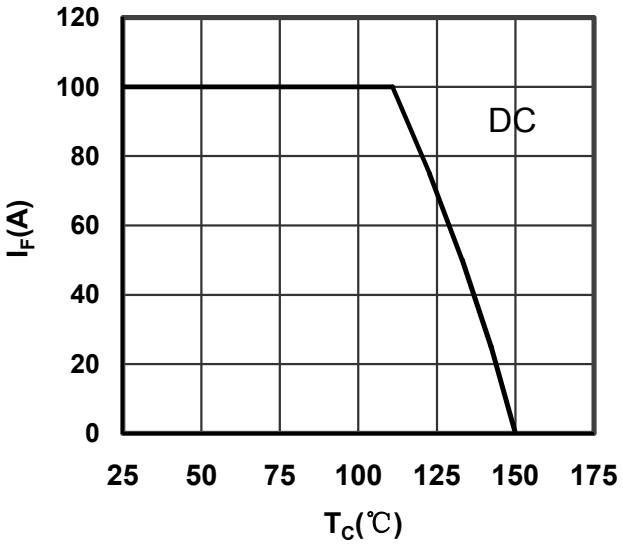


Figure 5.Forward current vs Case temperature

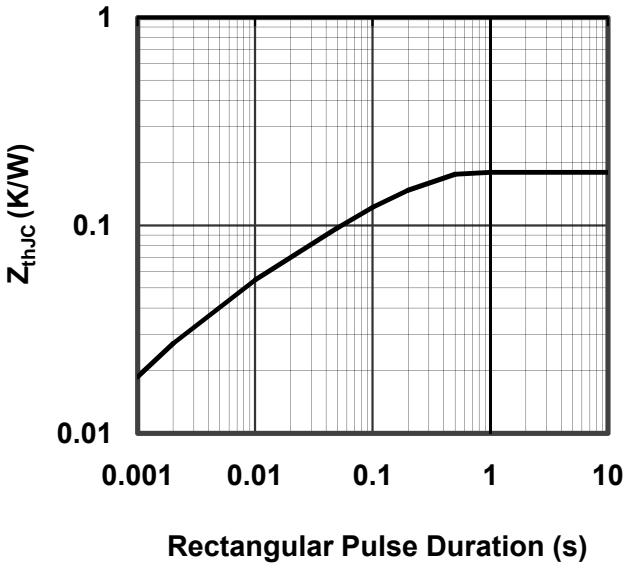
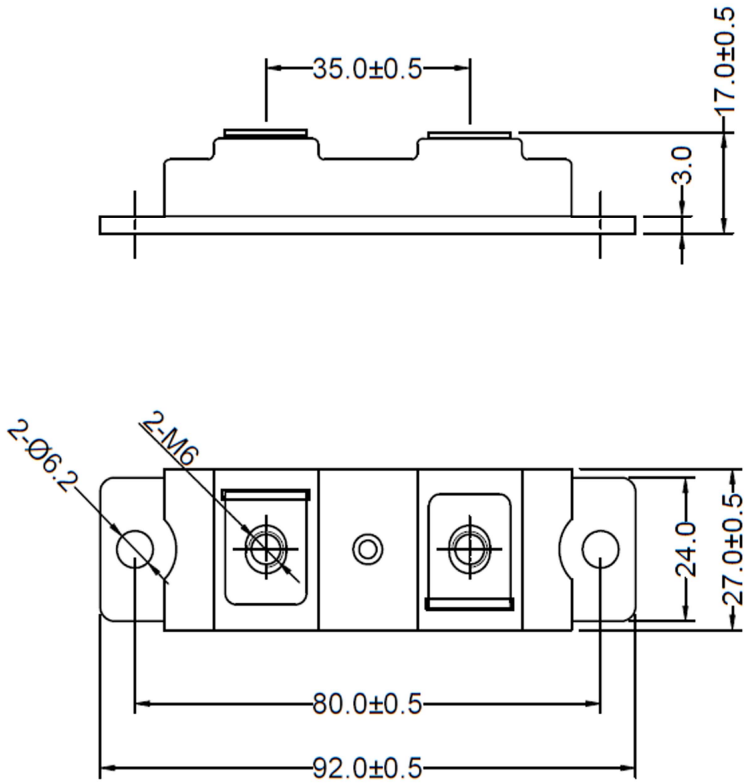


Figure 6. Transient Thermal Impedance



Dimensions in (mm)
Figure 7. Package Outline

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