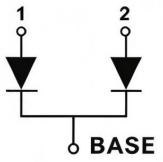
Fast Recovery Diode Module

Symbol	Value	Unit
V_R	400	V
I_{FAV}	300	A





Features

- Dual Diode construction
- Low Leakage Current
- Low forward voltage drop
- High surge current capability
- Super Fast Switching

Applications

- Inversion Welder
- Power Factor Correction(PFC)Circuit
- Plating Power Supply
- Ultrasonic Cleaner And Welder
- Converter & Chopper

Maximum Ratings

Parameter	Symbol	Conditions	Values	Unit
Repetitive peak reverse voltage	V_R	-	400	V
RMS reverse voltage	V_{RRM}	-	280	V
DC blocking voltage	V_{DC}	-	400	V
Average Forward Current	I_{FAV}	T_C≤125℃	300	A
Non-Repetitive forward surge current, half sine-wave	I_{FSM}	T_C=25℃	2500	A
Operating Junction Temperature	T_J	-	-40 to +150	℃
Storage Temperature	T_{STG}	-	-40 to +125	℃
Mounting torque Terminal torque	-	-	53.1(6) 44.2 (5)	Lbf.in (N.M)

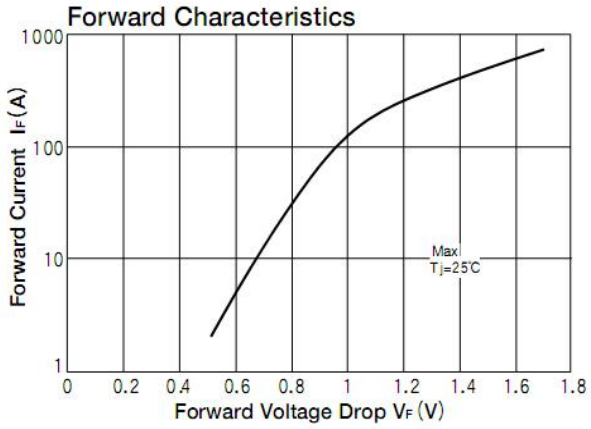
Thermal Characteristics

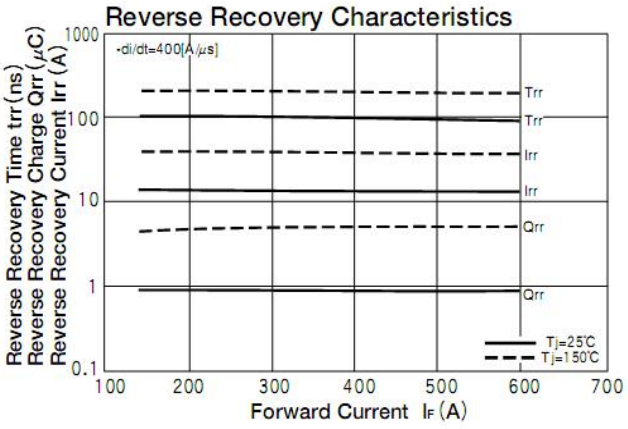
Symbol	Parameter	Conditions	Values	Unit
$R_{th(j-c)}$	Thermal resistance junction to case	Per diode	0.12	℃/W

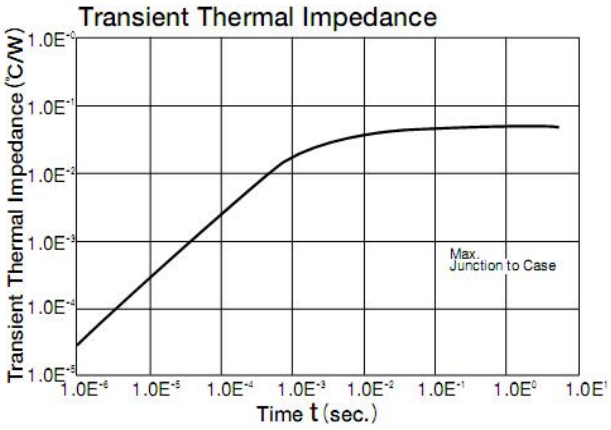
Electrical Characteristics

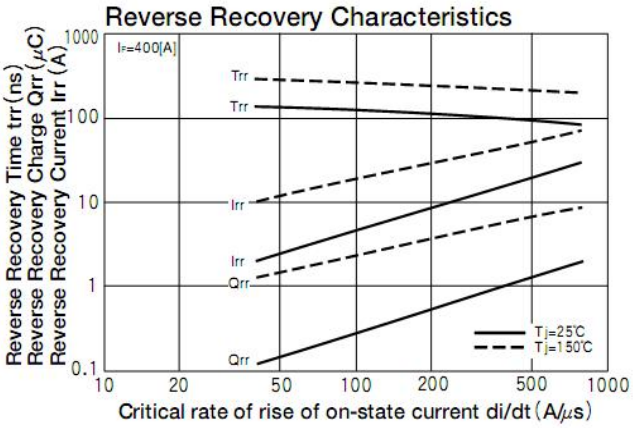
Symbol	Parameter	Conditions	Values			Unit
			Min.	Typ.	Max.	
V_F	Forward Voltage Drop (Per Leg)	T_J=25℃, I_F=150A	-	-	1.25	V
I_R	Repetitive Peak Reverse Current (Per Leg)	T_J=25℃, V_R=V_{RRM}	-	-	20	uA
		T_J=125℃, V_R=V_{RRM}	-	-	3	mA
T_{rr}	Typical Reverse Recovery Time (Per Leg)	I_F=40A, I_R=100V, di/dt=-200A/μs, T_J=25℃	-	-	100	ns

Characteristics Diagram

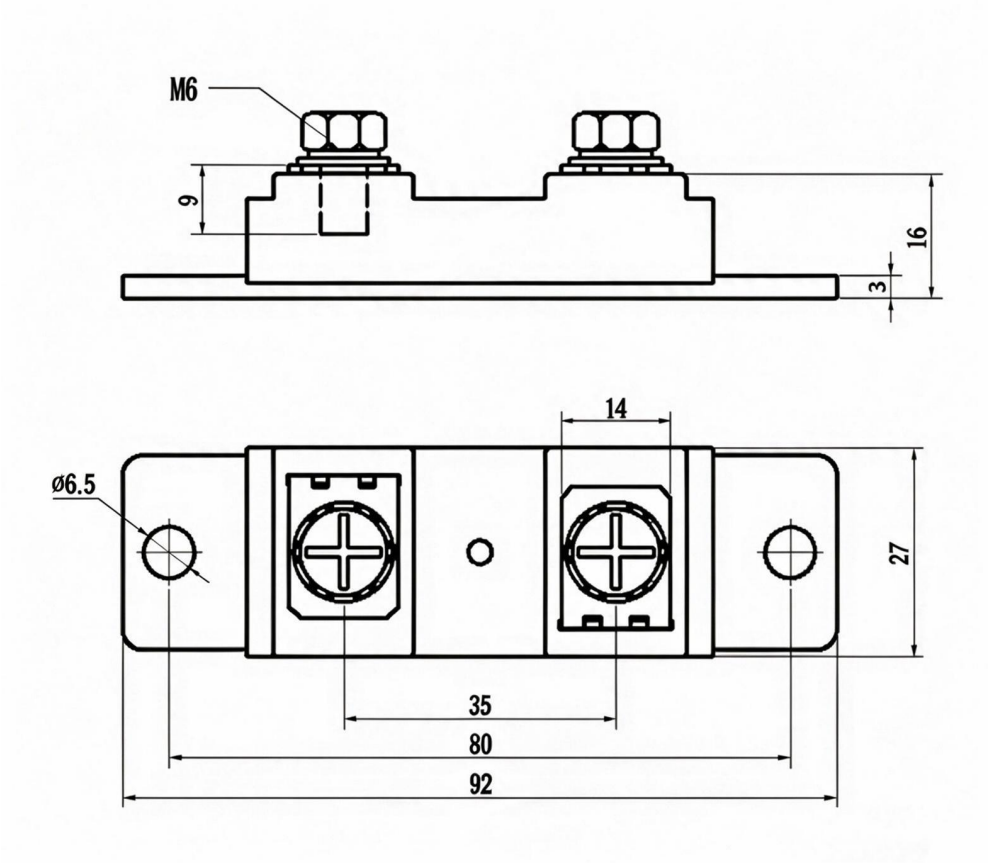








Package Outlines M45 (Dimensions in mm)



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