



**STANDARD RECOVERY THREE PHASE DEVICES
100A / 400-1600V**

Features

High Surge Capability
Types Up to 1600V V_{RRM}

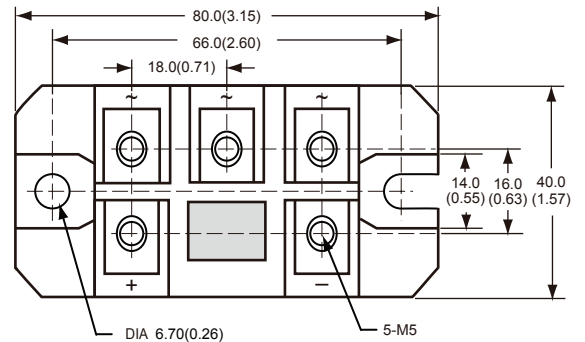
Maximum Ratings

Operating Temperature : -40°C to +150 °C
Storage Temperature : -40°C to +150 °C



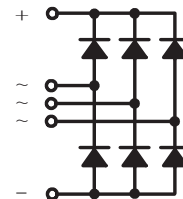
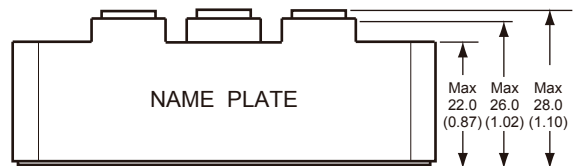
Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
M3P100A-040	400V	400V
M3P100A-060	600V	600V
M3P100A-080	800V	800V
M3P100A-100	1000V	1000V
M3P100A-120	1200V	1200V
M3P100A-140	1400V	1400V
M3P100A-160	1600V	1600V

Dimensions in mm (1 mm = 0.0394")



Electrical Characteristics @ 25 °C Unless Otherwise Specified

Average Forward Current (Per leg)	$I_{F(AV)}$	100 A	$T_C = 120^\circ\text{C}$ 400V~1000V $T_C = 85^\circ\text{C}$ 1200V~1600V
Peak Forward Surge Current	I_{FSM}	2000A	8.3ms, half sine
Maximum Instantaneous Forward Voltage* (Per leg)	V_F	1.10V	$I_{FM} = 100\text{A}$ $T_J = 25^\circ\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage* (Per leg)	I_R	10 μA 10 mA	$T_J = 25^\circ\text{C}$ $T_J = 150^\circ\text{C}$
Isolation Voltage	V_{isol}	2500 V	A.C. 1minute
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.23°C/W	



*Pulse Test : Pulse Width 300 μsec , Duty Cycle 2%



Figure.1 - Typical Forward Characteristics

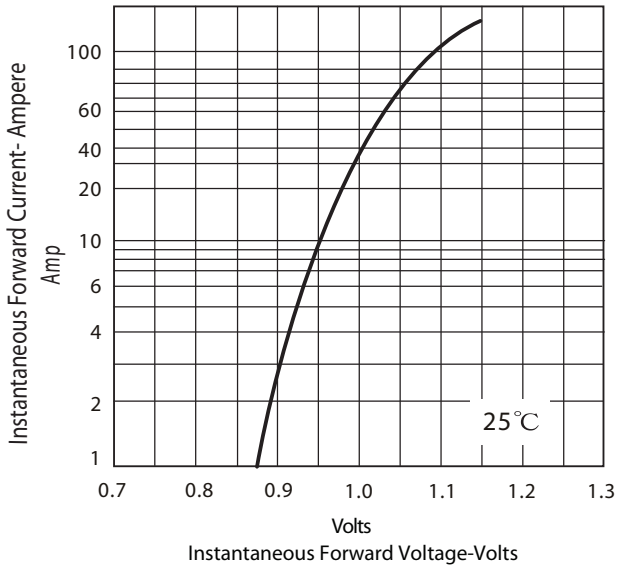


Figure.2 - Forward Derating Curve

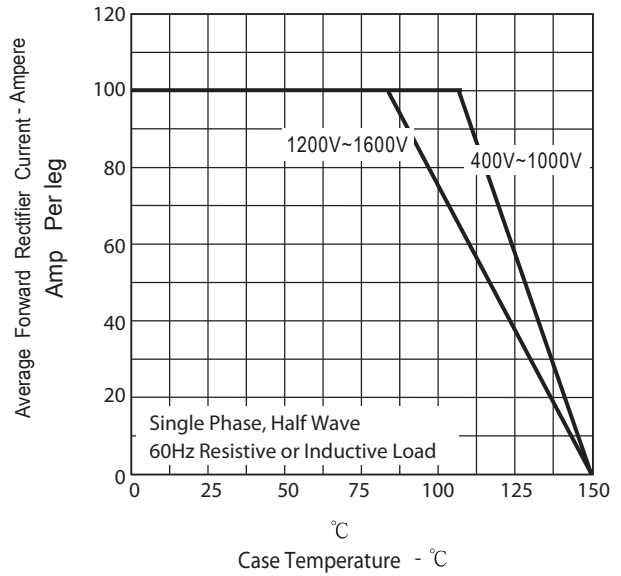


Figure.3- Peak Forward Surge Current

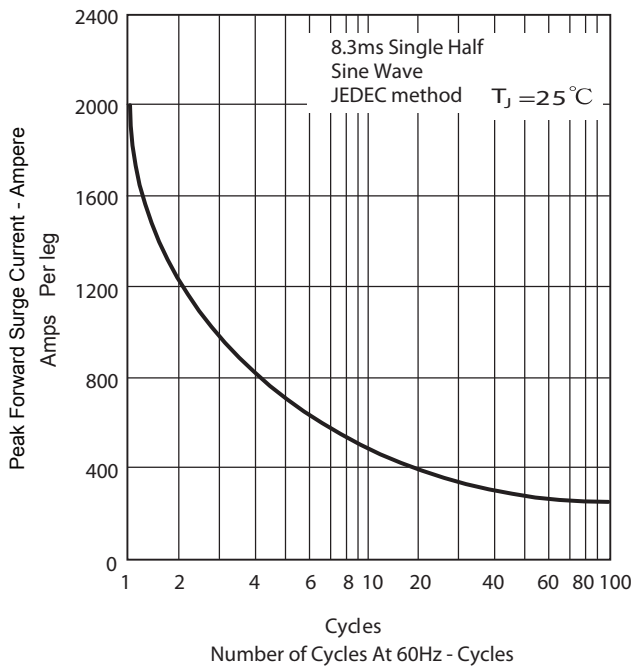
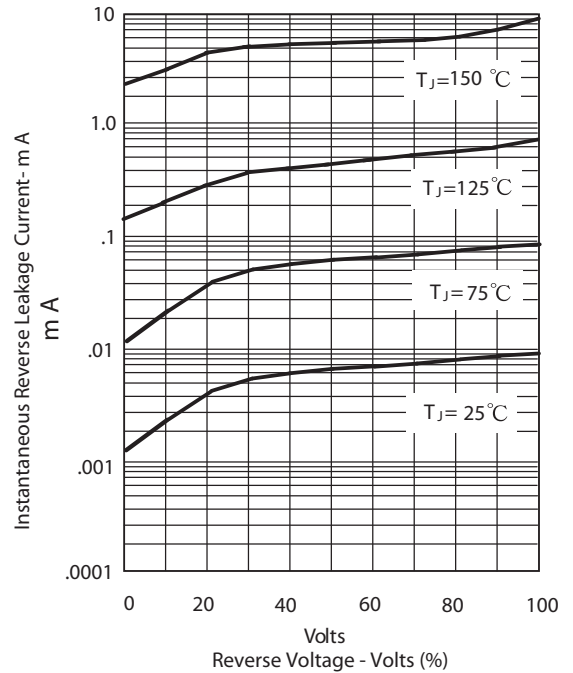


Figure.4 - Typical Reverse Characteristics





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