DACO SEMICONDUCTOR CO., LTD.

M3P100A-040 THRU M3P100A-160

STANDARD RECOVERY THREE PHASE DEVICES 100A

Features

High Surge Capability
Types Up to1600V V_{RRM}

THREE PHASE

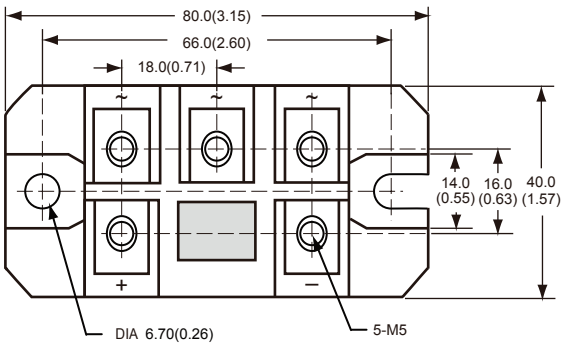
Maximum Ratings

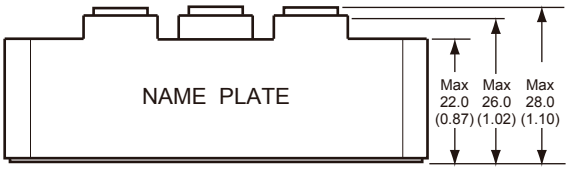
Operating Temperature : - 40℃ to +150 ℃

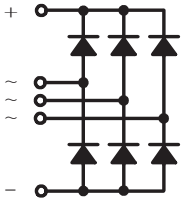
Storage Temperature : - 40℃ to +150 ℃

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 ℃ Unless Otherwise Specified

Average Forward Current (Per leg)	$I_{F(AV)}$	100 A	T_C = 120℃ 400V~1000V T_C = 85℃ 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} = 100A T_J = 25 ℃
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage * (Per leg)	I_R	10 μA 10 mA	T_J = 25 ℃ T_J = 150 ℃
Isolation Voltage	Visol	2500 V	A.C. 1minute
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.23℃/W	

*Pulse Test : Pulse Width 300 μ sec, Duty Cycle 2%

Figure.1 - Typical Forward Characteristics

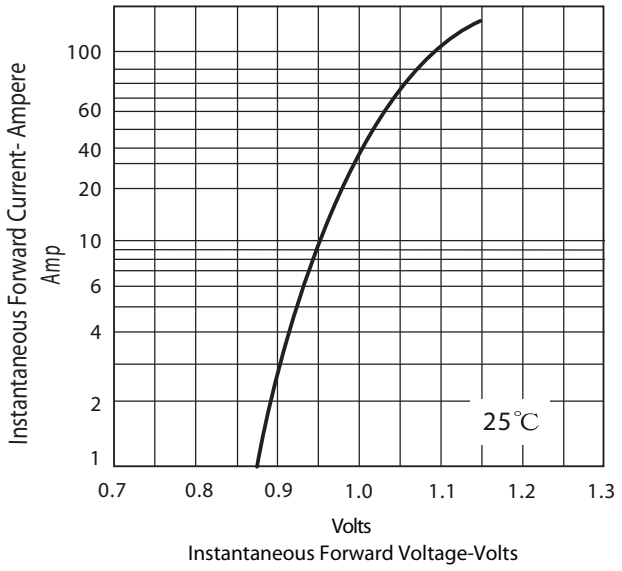


Figure.2 - Forward Derating Curve

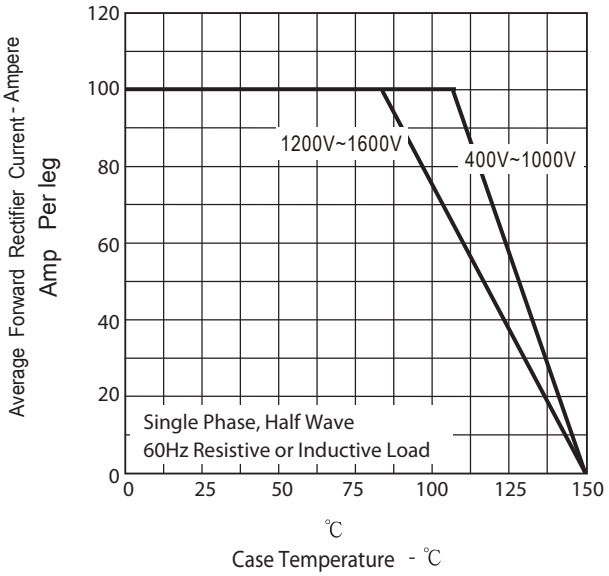


Figure.3- Peak Forward Surge Current

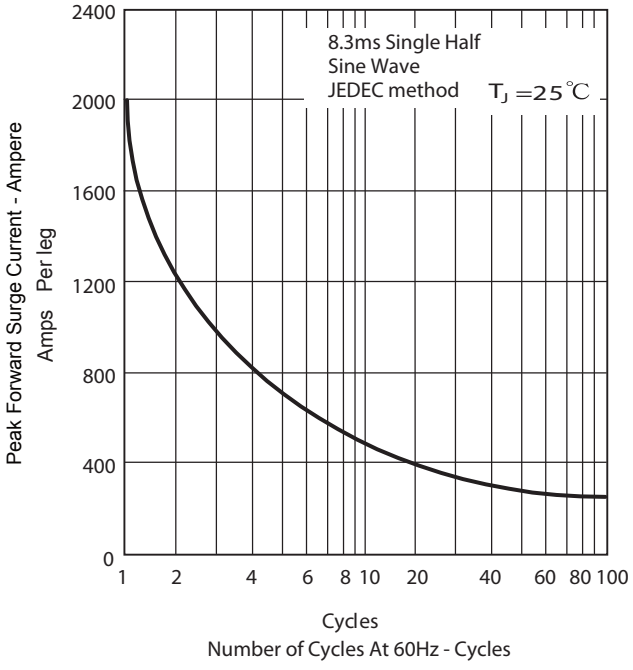


Figure.4 - Typical Reverse Characteristics