



STANDARD RECOVERY THREE PHASE DEVICES 75A

Features

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

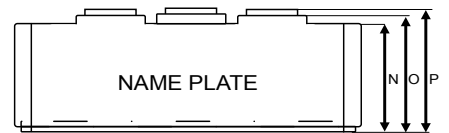
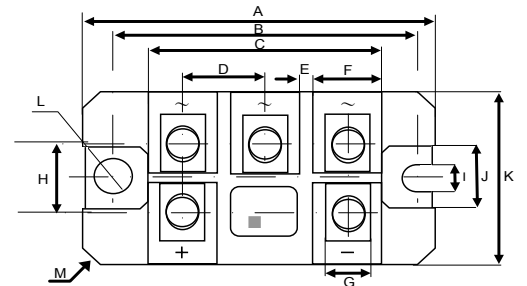
**75 Amp Rectifier
400-1600 Volts**

Maximum Ratings

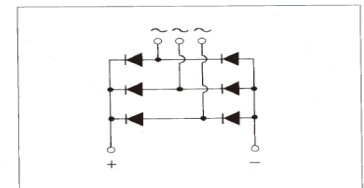
Operating Temperature: -40°C to $+150^{\circ}\text{C}$

Storage Temperature: -40°C to $+150^{\circ}\text{C}$

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
M3P75A-040	400V	400V
M3P75A-060	600V	600V
M3P75A-080	800V	800V
M3P75A-100	1000V	1000V
M3P75A-120	1200V	1200V
M3P75A-140	1400V	1400V
M3P75A-160	1600V	1600V



Inner Circuit Schematic



Electrical Characteristics @ 25 °C Unless Otherwise Specified

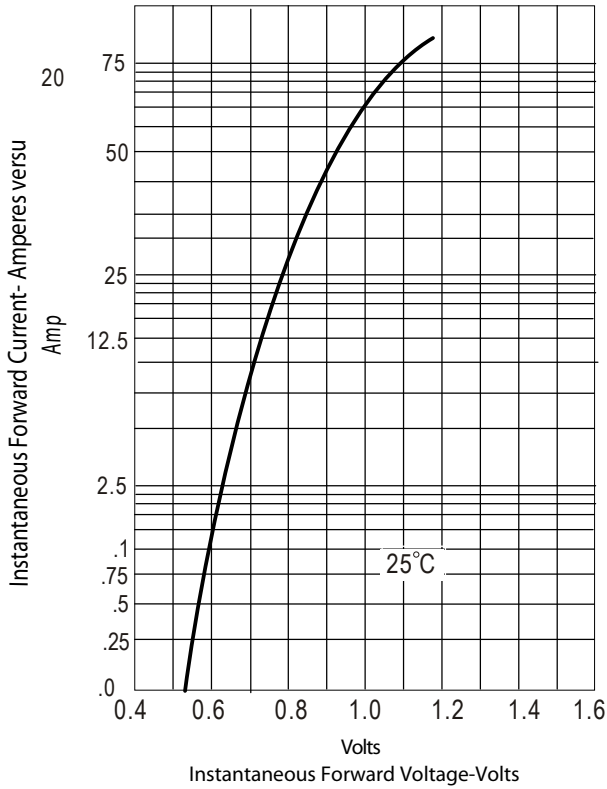
Average Forward Current (Per leg)	$I_{F(AV)}$	75 A	$T_C = 120^{\circ}\text{C}$ 400V~1000V $T_C = 85^{\circ}\text{C}$ 1200V~1600V
Peak Forward Surge Current	I_{FSM}	1000A	8.3ms, half sine
Maximum Instantaneous Forward Voltage * (Per leg)	V_F	1.10V	$I_{FM} = 75A$ $T_J = 25^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	I_R	10 μA 10 mA	$T_J = 25^{\circ}\text{C}$ $T_J = 150^{\circ}\text{C}$
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.60 $^{\circ}\text{C}/\text{W}$	

DIM	Inches		Millimeters	
	Min	Max	Min	Max
A	3.15	---	80	---
B	2.60	---	66	---
C	2.01	---	51	---
D	0.71	---	18	---
E	0.16	---	4	---
F	0.57	---	14.5	---
G	0.40	---	10.2	---
H	0.63	---	16	---
I	0.26	---	6.7	---
J	0.55	---	14	---
K	1.57	---	40	---
L	$\phi 0.26$	---	$\phi 6.7$	---
M	4-CS			
N	---	0.90 MAX	---	23 MAX
O	---	1.06 MAX	---	27 MAX
P	---	1.14 MAX	---	29 MAX

Pulse Test: Pulse Width 300 μsec . Duty Cycle < 2%



Figure.1-Typical Forward Characteristics



Figur.2-Forward Derating Curve

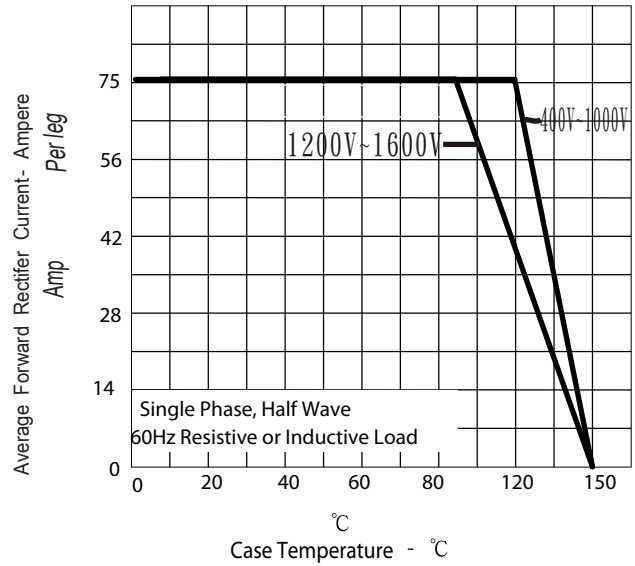


Figure.3-Peak Forward Surge Current

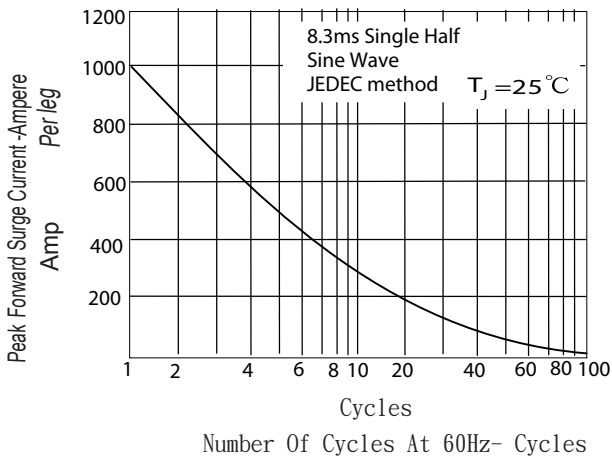


Figure.4- Typical Reverse Characteristics

