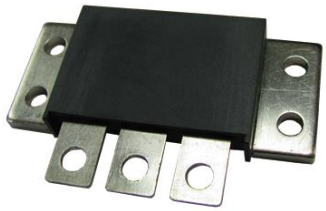
DACO SEMICONDUCTOR CO.,LTD.

FST12020
THRU
FST12045

SCHOTTKY DIODE MODULE TYPES
120A / 20-45V

POWER MOD
(TO-249AA)



Features

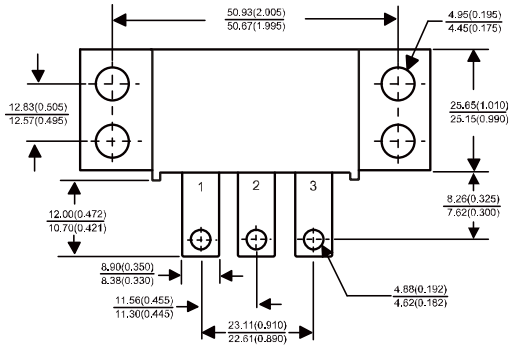
- High Surge Capability
- Types Up to 45V V_{RRM}
- Isolated to Plate

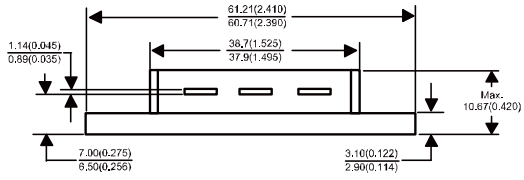
Maximum Ratings

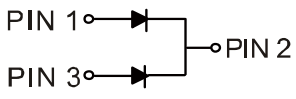
Operating Temperature：-55 °C to +150 °C
Storage Temperature：-55 °C to +150 °C

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FST12020	20V	14V	20V
FST12030	30V	21V	30V
FST12035	35V	25V	35V
FST12040	40V	28V	40V
FST12045	45V	32V	45V

Dimensions in mm (1 mm = 0.0394")







Electrical Characteristics @ 25 ℃ Unless Otherwise Specified.

Average Forward Current (Per pkg)	$I_{F(AV)}$	120A	T_C=125℃
Peak Forward Surge Current (Per leg)	I_{FSM}	1000A	8.3ms,half sine
Maximum Instantaneous Forward Voltage (Per leg)	V_F	0.70V	I_{FM}=60A;T_J=25℃
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg) NOTE(1)	I_R	1 mA 10 mA 30 mA	T_J=25℃ T_J=100℃ T_J=150℃
Maximum Thermal Resistance Junction To Case (Per leg)	Rθjc	0.80℃/W	

NOTE：

(1) Pulse Test: Pulse Width 300 μ sec,Duty<2%

Figure.1 - Typical Forward Characteristics

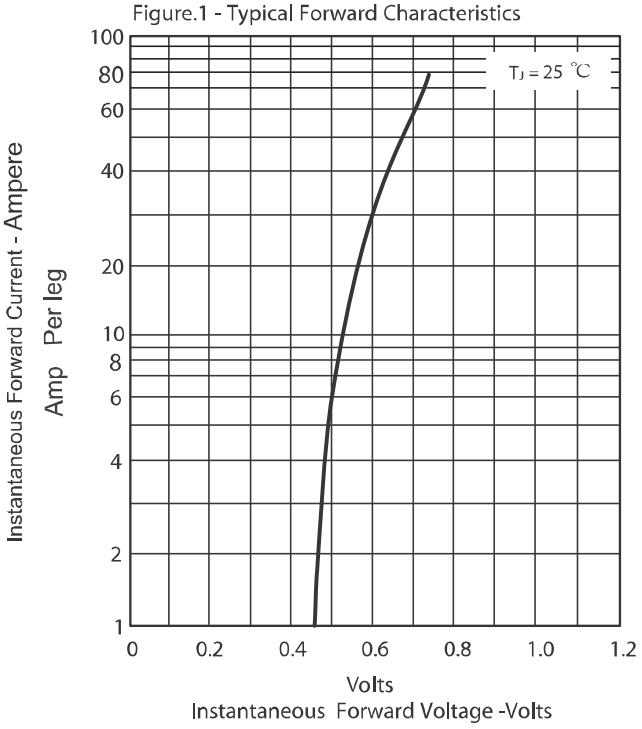
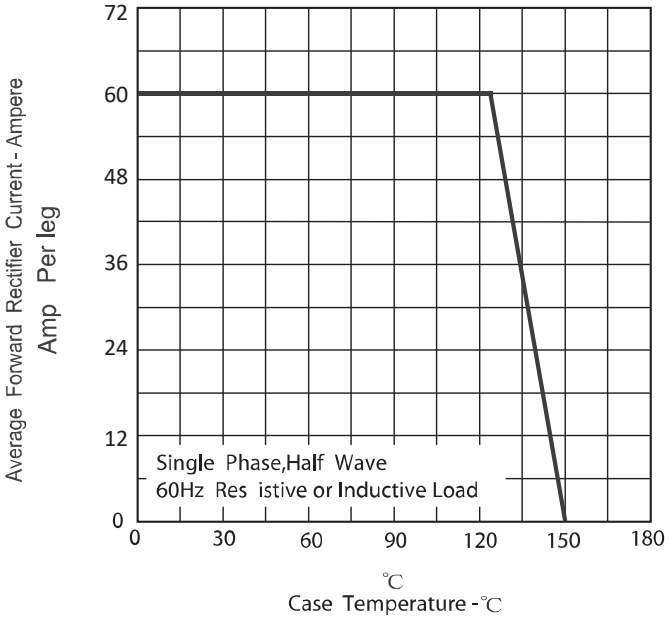


Figure.2 - Forward Derating Curve



Figupre.3 - Peak Forward Surge Current

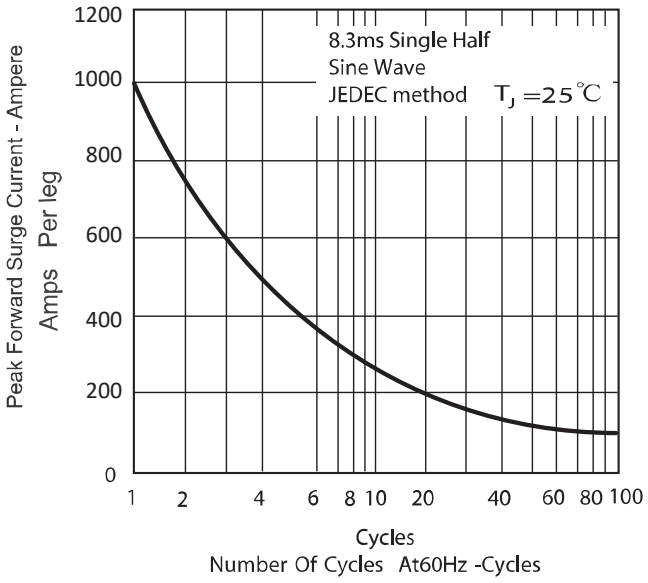
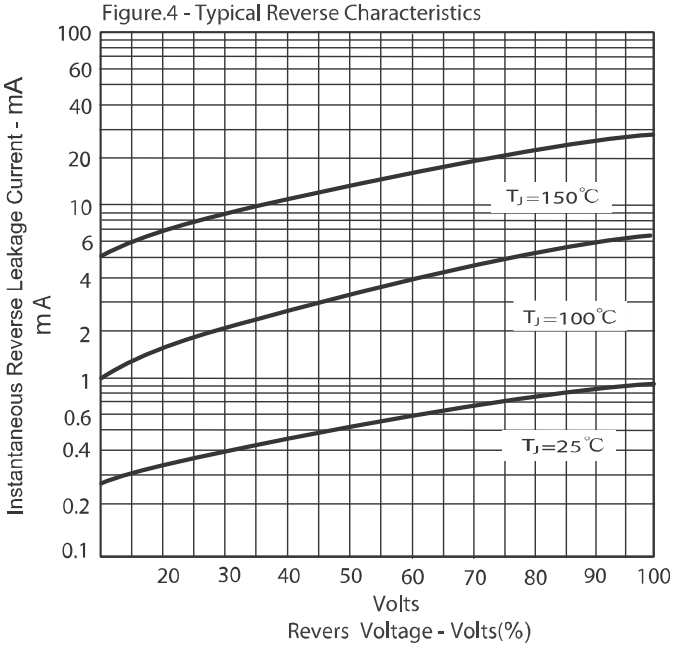


Figure.4 - Typical Reverse Characteristics



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