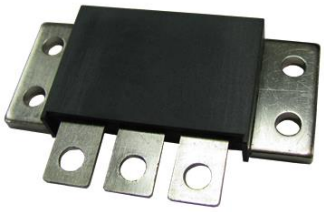
DACO SEMICONDUCTOR CO.,LTD.

FST16020 THRU FST16045

SCHOTTKY DIODE MODULE TYPES
160A / 20-45V

POWER MOD (TO-249AA)



Features

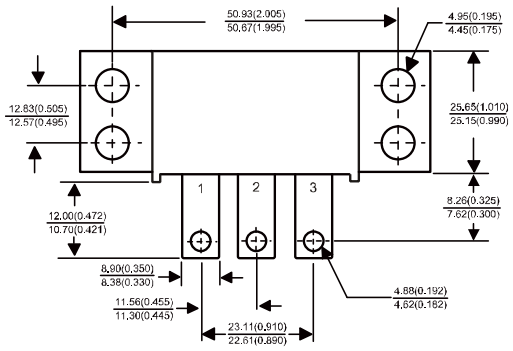
- High Surge Capability
- Types Up to 45V V_{RRM}
- Isolated to Plate

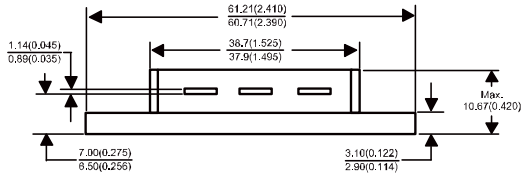
Maximum Ratings

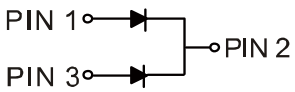
Operating Temperature：-55 °C to +150 °C
Storage Temperature：-55 °C to +150 °C

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FST16020	20V	14V	20V
FST16030	30V	21V	30V
FST16035	35V	25V	35V
FST16040	40V	28V	40V
FST16045	45V	32V	45V

Dimensions in mm (1 mm = 0.0394")







Electrical Characteristics @ 25 ℃ Unless Otherwise Specified.

Average Forward Current (Per pkg)	$I_{F(AV)}$	160A	T_C=125℃
Peak Forward Surge Current (Per leg)	I_{FSM}	1000A	8.3ms,half sine
Maximum Instantaneous Forward Voltage (Per leg)	V_F	0.75V	I_{FM}=80A;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	0.50℃/W	

NOTE：

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

Figure.1 - Typical Forward Characteristics

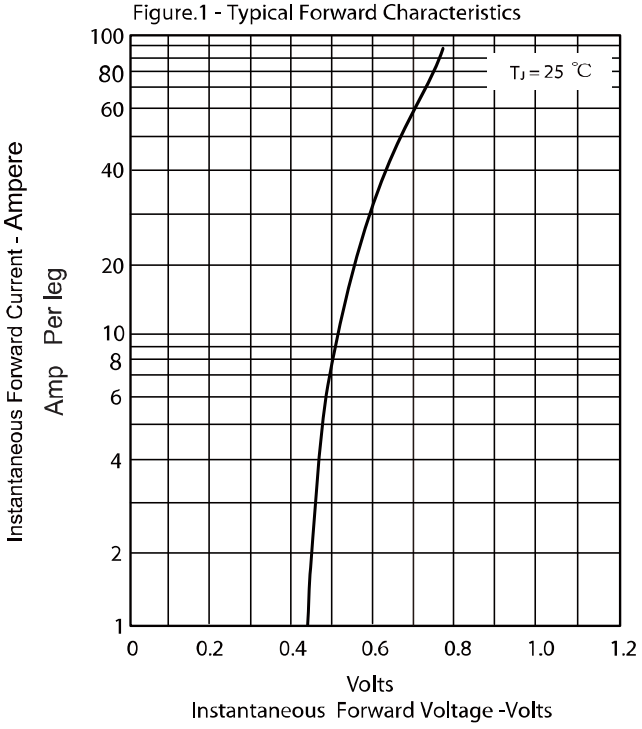
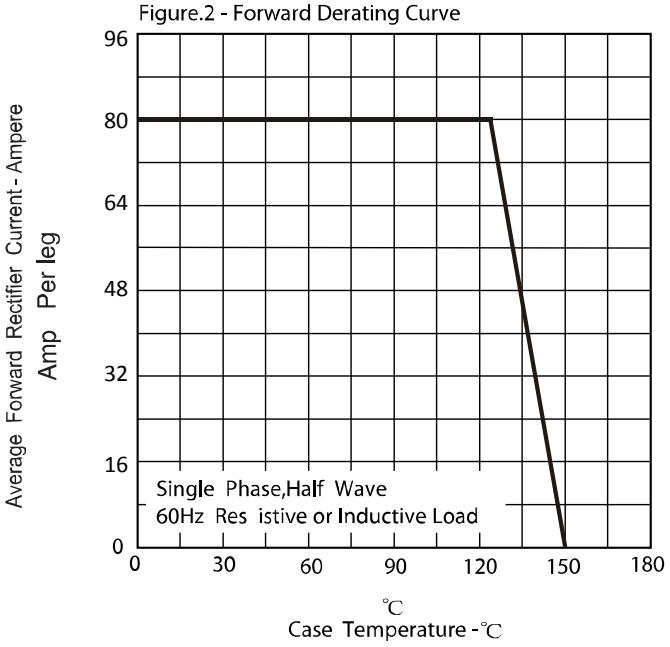


Figure.2 - Forward Derating Curve



Figupre.3 - Peak Forward Surge Current

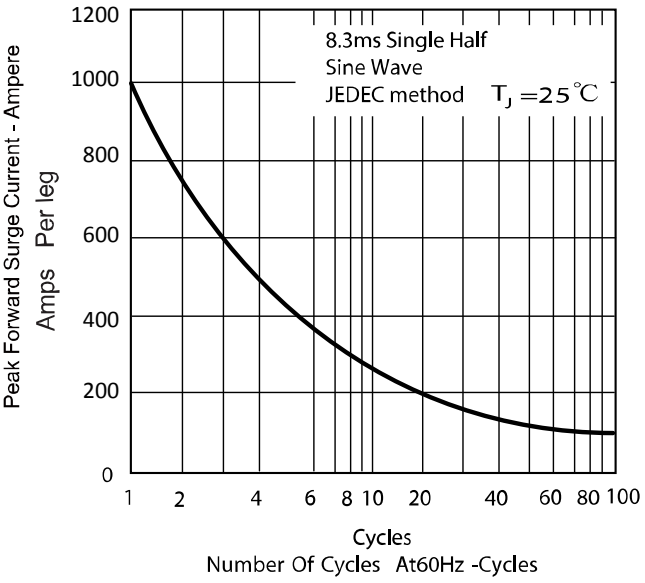
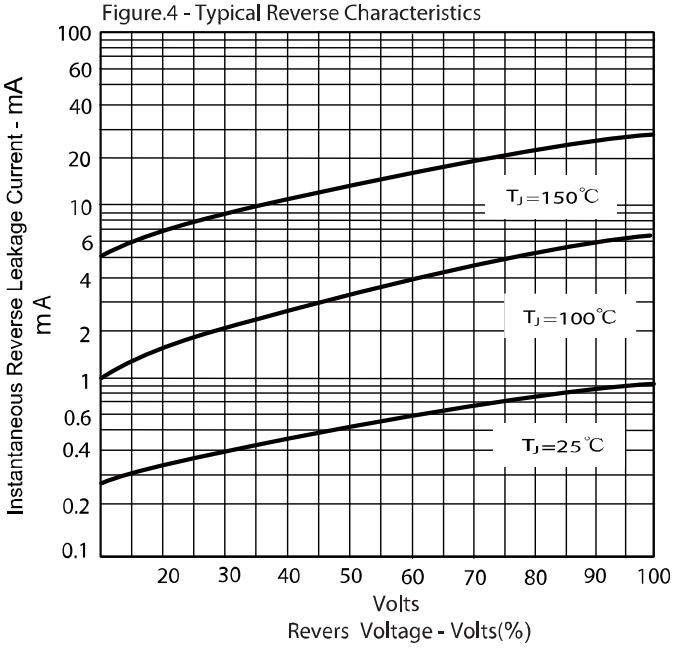


Figure.4 - Typical Reverse Characteristics



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