



**SCHOTTKY DIODE MODULE TYPES 160A**

**Features**

High Surge Capability  
Types Up to 100V  $V_{RRM}$   
Isolated to Plate

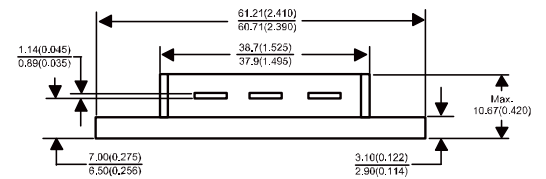
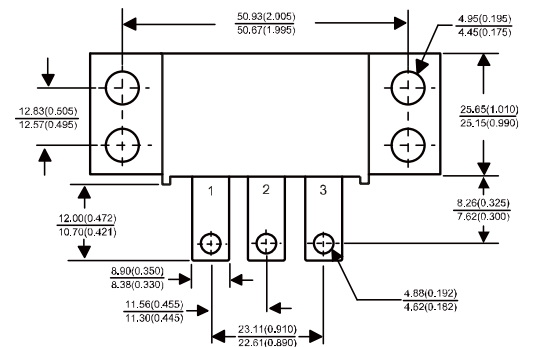
**Maximum Ratings**

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
FST16080	80V	56V	80V
FST160100	100V	70V	100V

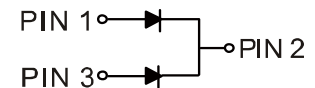


Dimensions in mm (1 mm = 0.0394")



**Electrical Characteristics @ 25 °C Unless Otherwise Specified.**

Average Forward Current (Per pkg)	$I_{F(AV)}$	160A	$T_c = 125^\circ\text{C}$
Peak Forward Surge Current (Per leg)	$I_{FSM}$	1000A	8.3ms, half sine
Maximum Instantaneous Forward Voltage (Per leg)	$V_F$	0.84V	$I_{FM} = 80A; T_J = 25^\circ\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	$I_R$	1 mA 10 mA 30 mA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$ $T_J = 150^\circ\text{C}$
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.50°C/W	



NOTE :

(1) Pulse Test: Pulse Width 300  $\mu$  sec, Duty < 2%

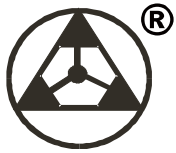


Figure.1 - Typical Forward Characteristics

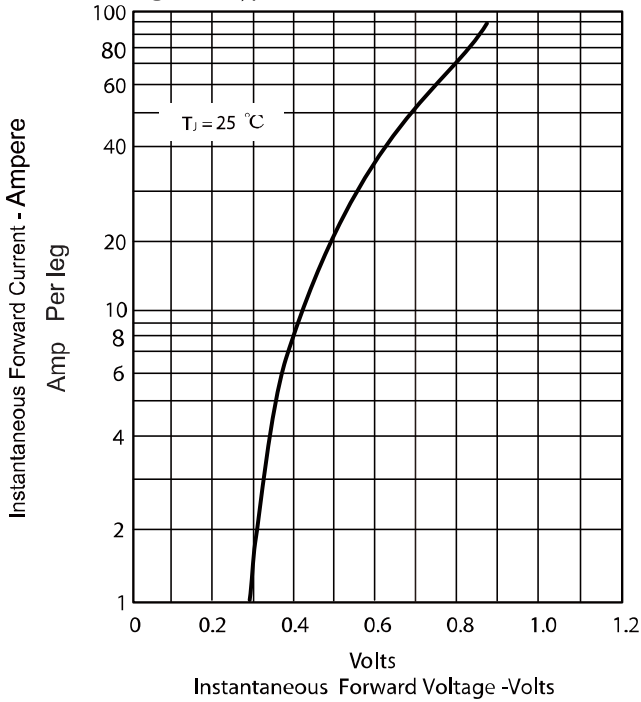


Figure.2 - Forward Derating Curve

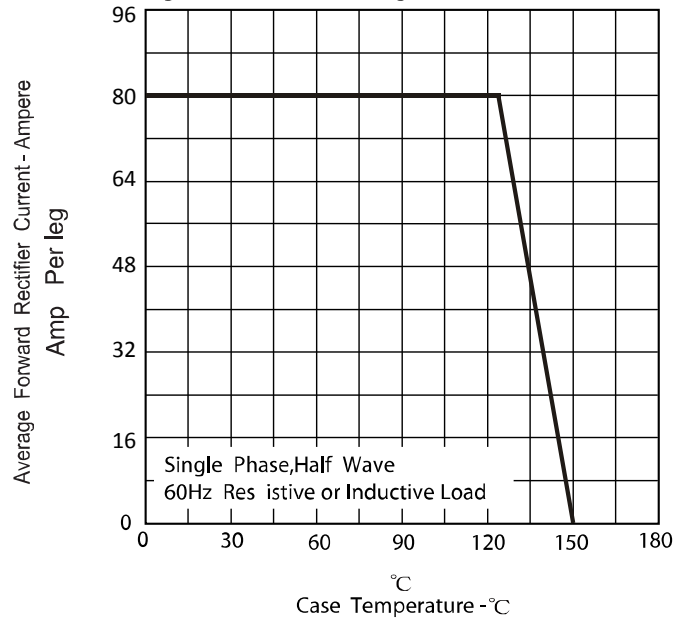


Figure.3 - Peak Forward Surge Current

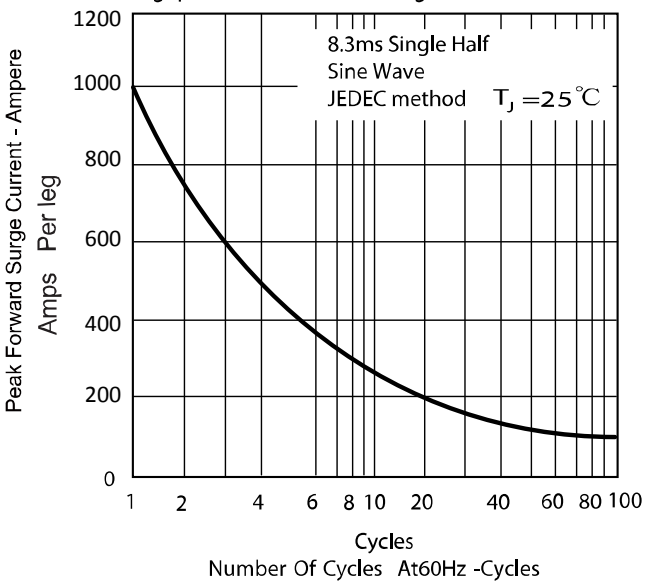


Figure.4 - Typical Reverse Characteristics

