



LOW VF SCHOTTKY DIODE MODULE TYPE 160A

Features

- High Surge Capability
- Isolated to Plate

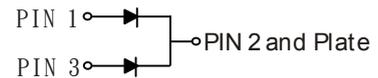
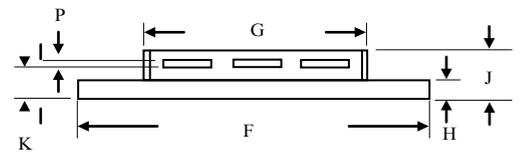
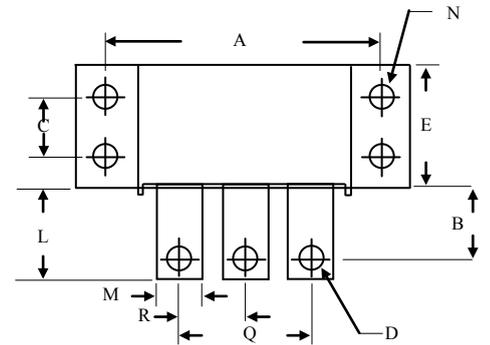
160 Amp Rectifier
40 Volts

Maximum Ratings

Operating Temperature: -40°C to +100°C
Storage Temperature: -40°C to +150°C

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FST16040L	40V	28V	40V

POWER MOD (TO-249)



Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current (per pkg)	$I_{F(AV)}$	160A	$T_C=100^\circ C$
Peak Forward Surge Current (per leg)	I_{FSM}	1000A	8.3ms, half sine
Maximum Instantaneous Forward Voltage (per leg)	V_F	0.60V	$I_{FM}=80 A; T_J=25^\circ C$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	I_R	2mA 200mA	$T_J=25^\circ C$ $T_J=100^\circ C$
Maximum Thermal Resistance Junction To Case (per leg)	$R_{\theta jc}$	0.50°C/W	

DIM	Inches		Millimeters	
	Min	Max	Min	Max
A	1.995	2.005	50.67	50.93
B	0.300	0.325	7.62	8.26
C	0.495	0.505	12.57	12.83
D	0.182	0.192	4.62	4.88
E	0.990	1.010	25.15	26.65
F	2.390	2.410	60.71	61.21
G	1.495	1.525	37.90	38.70
H	0.114	0.122	2.90	3.10
J	-----	0.420	-----	10.67
K	0.256	0.275	6.5	7.0
L	0.490	0.510	12.45	12.95
M	0.330	0.350	8.38	8.90
N	0.175	0.195	4.45	4.95
P	0.035	0.045	0.89	1.14
R	0.445	0.455	11.30	11.56
Q	0.890	0.910	22.61	23.11

NOTE :

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



Figure .1-Typical Forward Characteristics

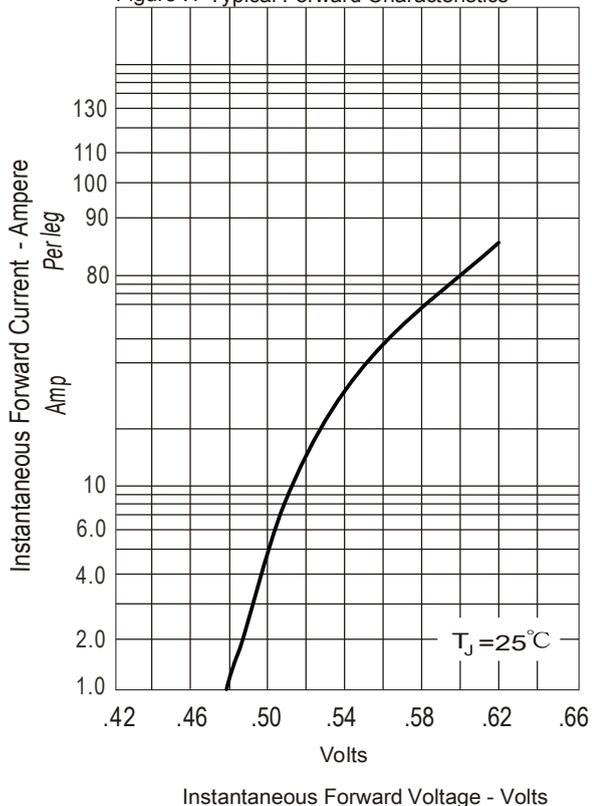


Figure .2- Forward Derating Curve

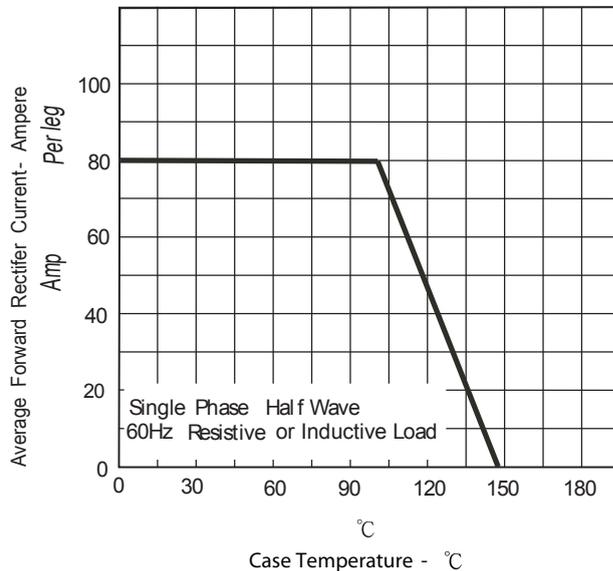


Figure .4- Typical Reverse Characteristics

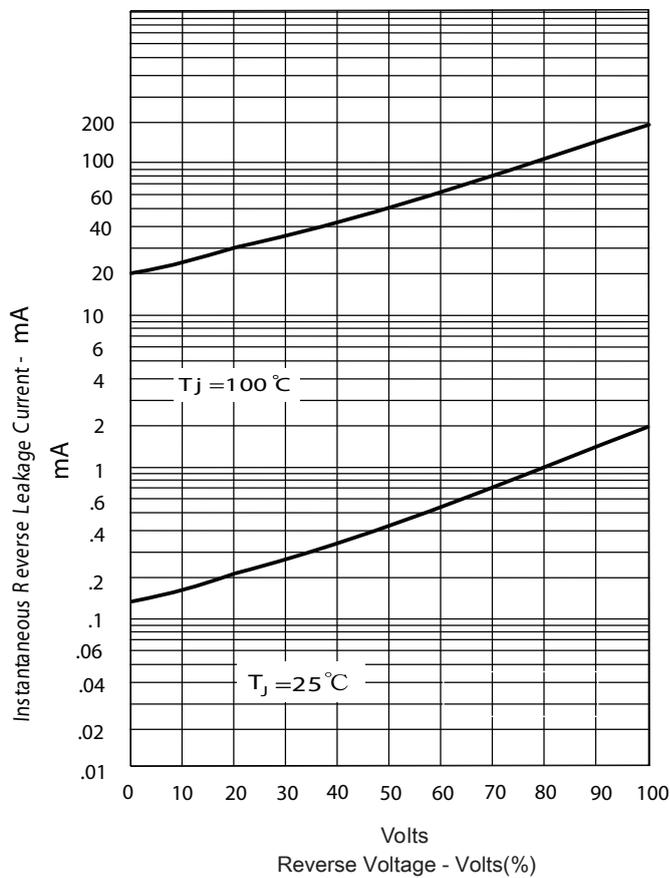
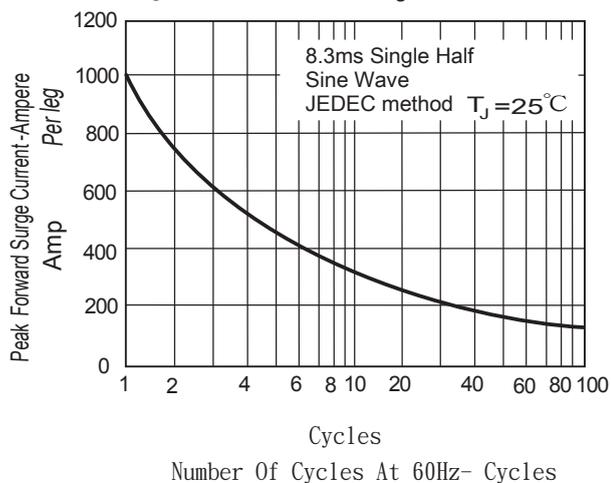


Figure.3-Peak Forward Surge Current





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