



SCHOTTKY DIODE MODULE TYPES 60A

Features

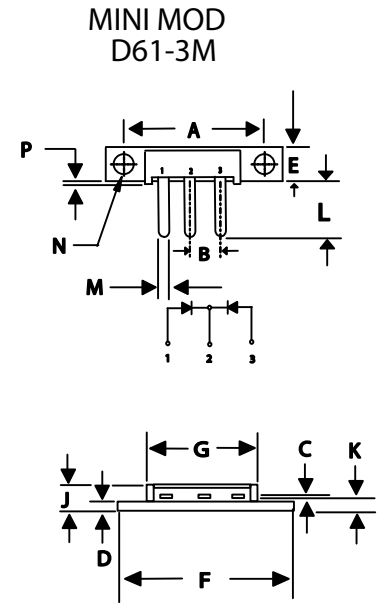
High Surge Capability
Types Up to 100 V V_{RRM}

**60 Amp Rectifier
10-100 Volts**

Maximum Ratings

Operating Temperature: -55°C to $+150^{\circ}\text{C}$
Storage Temperature: -55°C to $+150^{\circ}\text{C}$

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FST6310 M	10V	7V	10V
FST6315 M	15V	11V	15V
FST6320 M	20V	14V	20V
FST6330 M	30V	21V	30V
FST6340 M	40V	28V	40V
FST6345 M	45V	32V	45V
FST6360 M	60V	42V	60V
FST6380M	80V	56V	80V
FST63100M	100V	70V	100V



Electrical Characteristics @ 25 °C Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	60A	$T_C=125^{\circ}\text{C}$
Peak Forward Surge Current (Per leg)	I_{FSM}	600A	8.3ms, half sine
Maximum Instantaneous Forward Voltage (Per leg)	V_F	0.70V 0.75V 0.84V	$I_{FM}=30\text{ A}; T_J=25^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	I_R	1mA 10mA 30mA	$T_J=25^{\circ}\text{C}$ $T_J=100^{\circ}\text{C}$ $T_J=150^{\circ}\text{C}$
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	1.20 °C/W	

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.180	1.195	29.97	30.35	
B	.200	NOM	5.08	NOM	2PL
C	.027	.037	0.69	0.94	
D	.088	.098	2.24	2.49	
E	.350	.370	8.89	9.40	
F	1.490	1.510	37.85	38.35	
G	.695	.715	17.65	18.16	
J	.240	.260	6.10	6.60	
K	.115	.135	2.92	3.43	
L	.457	.477	11.61	12.12	
M	.065	.085	1.65	2.16	
N	.151	.161	3.84	4.09	∅
P	.015	.025	0.38	0.64	

NOTE :

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



Figure .1- Typical Forward Characteristics

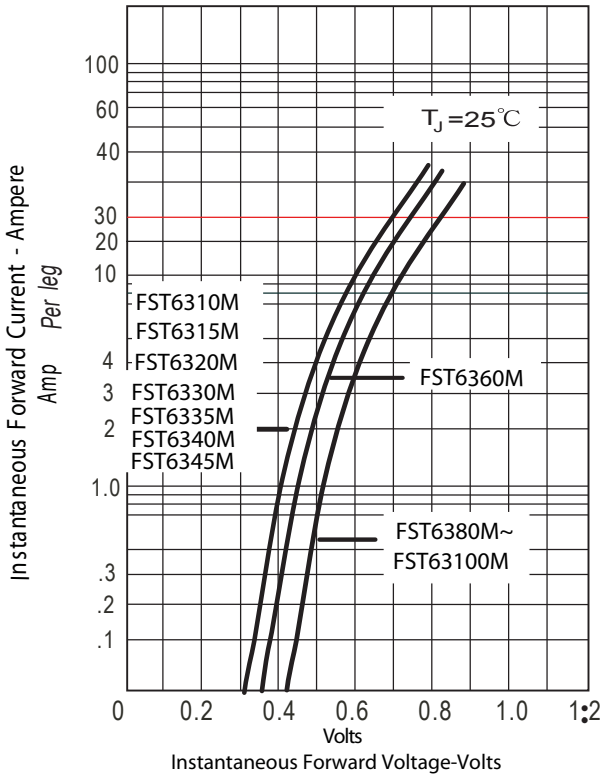


Figure .2- Forward Derating Curve

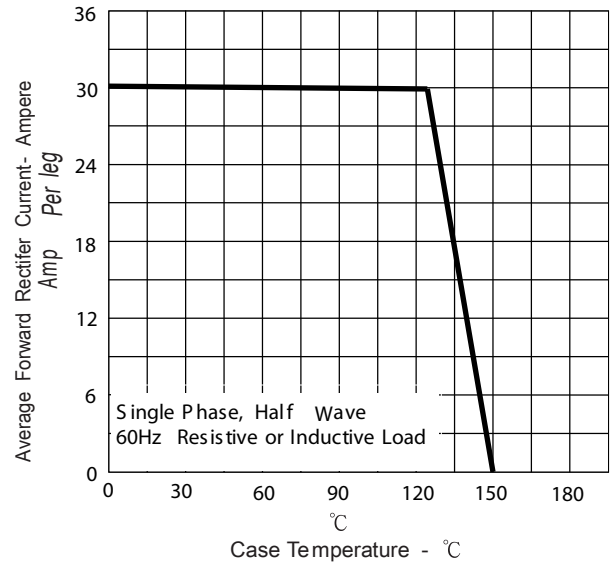


Figure.3-Peak Forward Surge Current

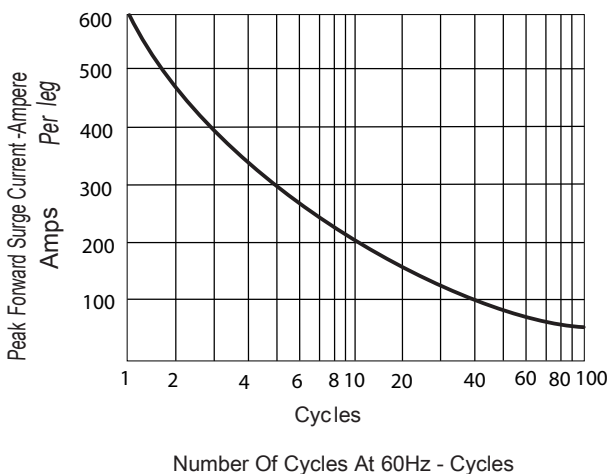


Figure .4- Typical Reverse Characteristics

