

**SCHOTTKY DIODES MODULE TYPE 60A**

**Features**

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

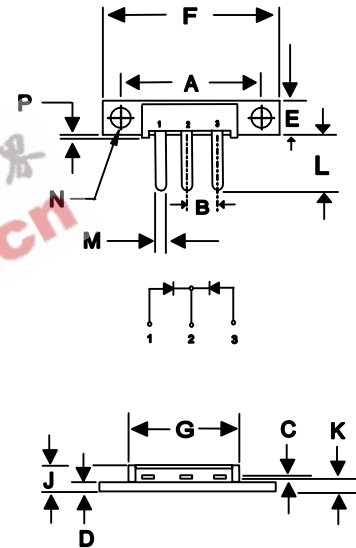
60Amp Rectifier  
10-100 Volts

MINI MOD  
D61-3M

**Maximum Ratings**

Operating Temperature:  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$   
Storage Temperature:  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FST6310M	10V	7V	10V
FST6315M	15V	10V	15V
FST6320M	20V	14V	20V
FST6330M	30V	21V	30V
FST6335M	35V	25V	35V
FST6340M	40V	28V	40V
FST6345M	45V	32V	45V
FST6360M	60V	42V	60V
FST6380M	80V	56V	80V
FST63100M	100V	70V	100V



**Electrical Characteristics @  $25^{\circ}\text{C}$  Unless Otherwise Specified**

Average Forward Current (Per pkg)	$I_{F(AV)}$	60A	$T_C = 105^{\circ}\text{C}$
Peak Forward Surge Current (Per leg)	$I_{FSM}$	600A	8.3ms, half sine
Maximum Instantaneous Forward Voltage NOTE (1)	$V_F$	0.55V 0.75V 0.84V	(FST6310M-FST6345M) (FST6360M) (FST6380M-FST63100M) $I_{FM} = 30\text{A}; T_J = 25^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	$I_R$	3.0 mA 500 mA	$T_J = 25^{\circ}\text{C}$ $T_J = 125^{\circ}\text{C}$
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	1.2 $^{\circ}\text{C}/\text{W}$	

NOTE :

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

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	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	$\emptyset$
P	.015	.025	0.38	0.64	

Figure .1-Typical Forward Characteristics

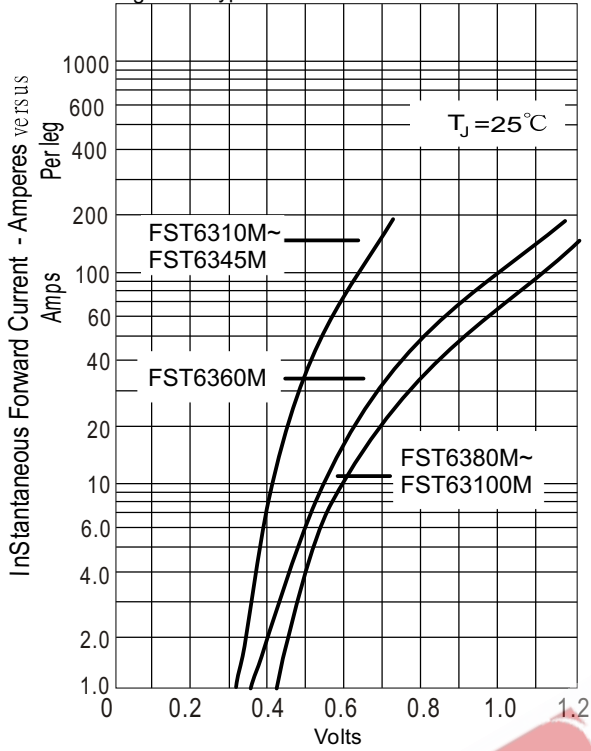
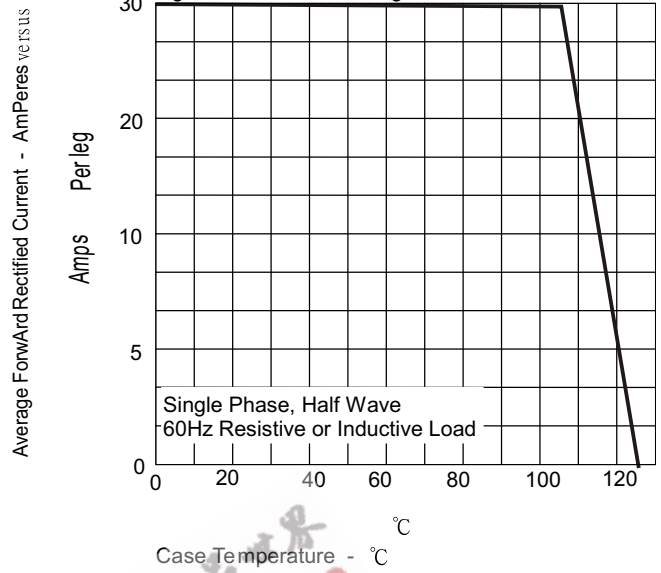


Figure .2-Forward Derating Curve



Instantaneous Forward Voltage - Volts

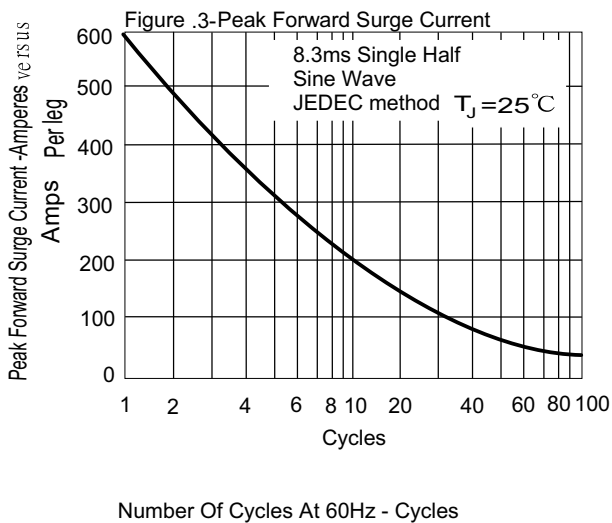


Figure .4-Typical Reverse Characteristics

