

SCHOTTKY DIODES MODULE TYPE 70A

Features

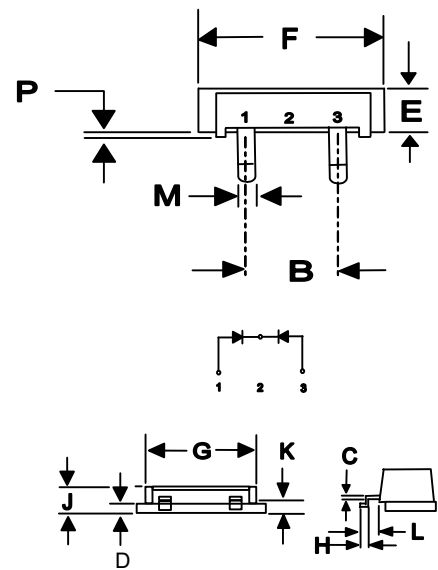
High Surge Capability
Types Up to 100V V_{RRM}

**70Amp Rectifier
20-100 Volts**

Maximum Ratings

Operating Temperature: -40°C to $+175^{\circ}\text{C}$
Storage Temperature: -40°C to $+175^{\circ}\text{C}$

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FST7220SL	20V	14V	20V
FST7230SL	30V	21V	30V
FST7235SL	35V	25V	35V
FST7240SL	40V	28V	40V
FST7245SL	45V	32V	45V
FST7260SL	60V	42V	60V
FST7280SL	80V	56V	80V
FST72100SL	100V	70V	100V



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	-----	-----	-----	-----	
B	.400	NOM	10.16	NOM	2PL
C	.027	.037	0.69	0.94	
D	.088	.098	2.24	2.49	
E	.350	.370	8.89	9.40	
F	.777	.797	19.74	20.24	
G	.695	.715	17.65	18.16	
H	.104	.124	2.64	3.15	
J	.240	.260	6.10	6.60	
K	.115	.135	2.92	3.43	
L	.230	.250	5.84	6.35	
M	.065	.085	1.65	2.16	
P	.015	.025	0.38	0.64	

Electrical Characteristics @ 25 °C Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	70A	$T_C = 100^{\circ}\text{C}$
Peak Forward Surge Current (Per leg)	I_{FSM}	800A	8.3ms, half sine
Maximum Instantaneous Forward Voltage NOTE (1)	V_F	0.55V 0.75V 0.84V	(FST7220SL~FST7245SL) (FST7260SL) (FST7280SL~FST72100SL) $I_{FM} = 35\text{ A}; T_J = 25^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	I_R	5.0 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°C/W	

NOTE :

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

FST7220SL THRU FST72100SL

Figure .1-Typical Forward Characteristics

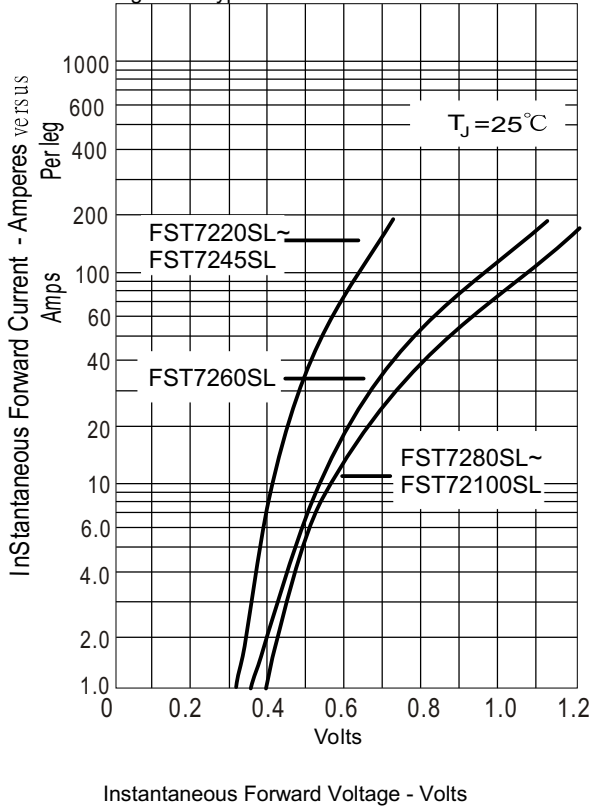


Figure .2-Forward Derating Curve

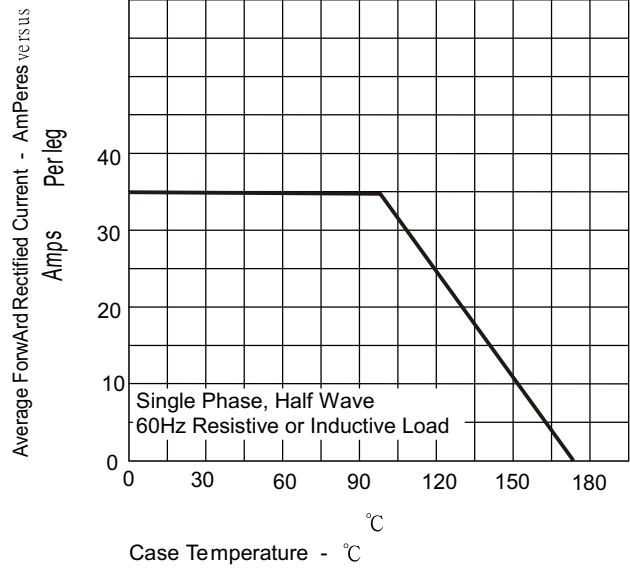


Figure .4-Typical Reverse Characteristics

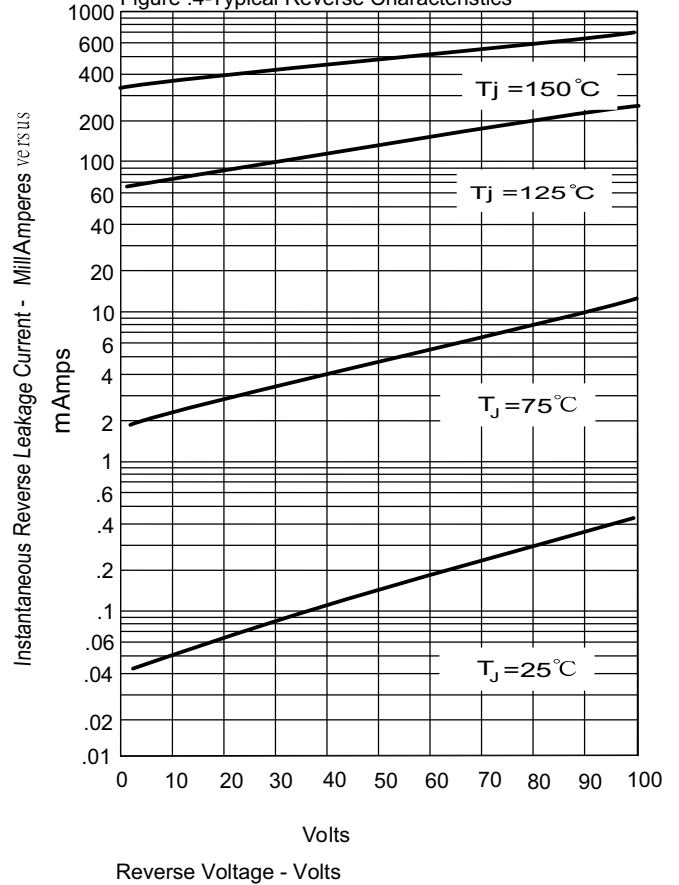


Figure .3-Peak Forward Surge Current

