

SCHOTTKY DIODES MODULE TYPE 120A

Features

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

**120Amp Rectifier
20-100 Volts**

Maximum Ratings

Operating Temperature: -40°C to $+125^{\circ}\text{C}$
Storage Temperature: -40°C to $+175^{\circ}\text{C}$

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FST12020	20V	14V	20V
FST12030	30V	21V	30V
FST12035	35V	25V	35V
FST12040	40V	28V	40V
FST12045	45V	32V	45V
FST12060	60V	42V	60V
FST12080	80V	56V	80V
FST120100	100V	70V	100V

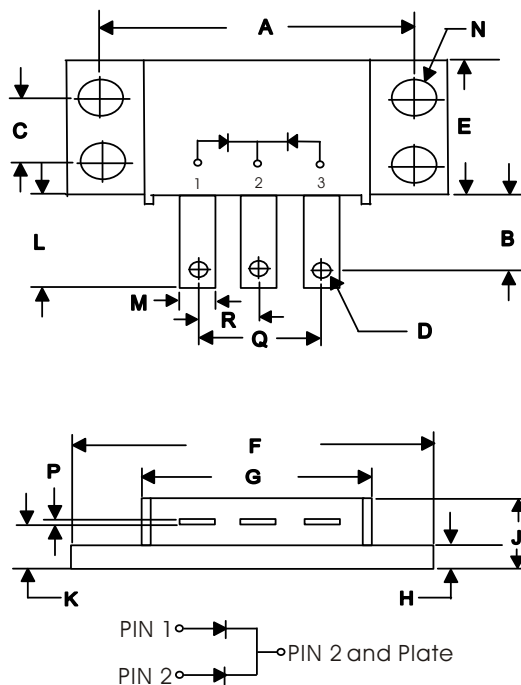
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current (Per Pkg)	$I_{F(AV)}$	120A	$T_c = 135^{\circ}\text{C}$
Peak Forward Surge Current (Per leg)	I_{FSM}	1200A	8.3ms, half sine
Maximum Instantaneous Forward Voltage (Per leg) NOTE (1)	V_F	0.65V 0.75V 0.84V	(FST12020-FST12045) (FST12060) (FST12080-FST120100) $I_{FM} = 60A; T_j = 25^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg) NOTE (1)	I_R	2 mA 600 mA	$T_j = 25^{\circ}\text{C}$ $T_j = 125^{\circ}\text{C}$
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	1.0°C/W	

NOTE :

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

**POWER MOD
TO-249AB**



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	1.995	2.005	50.67	50.93	
B	.300	.325	7.62	8.26	
C	.495	.505	12.57	12.83	
D	.182	.192	4.62	4.88	\emptyset
E	.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	.114	.122	2.90	3.10	
J	----	0.420	----	10.67	
K	.240	.260	6.10	6.60	
L	.490	.510	12.45	12.95	
M	.330	.350	8.38	8.90	
N	.175	.195	4.45	4.95	\emptyset
P	.035	.045	0.89	1.14	
R	.445	.455	11.30	11.56	
Q	.890	.910	22.61	23.11	

FST12020 THRU FST120100

