Transys Electronics LIMITED

FST20020 THRU FST20045

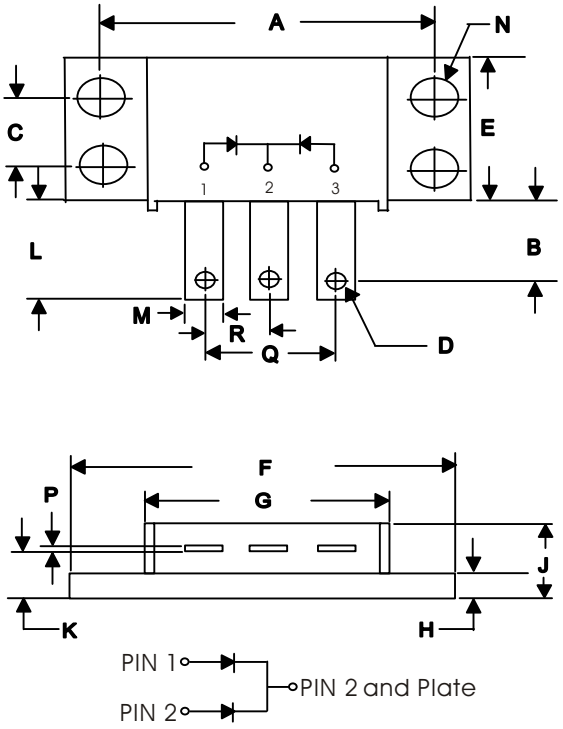
SCHOTTKY DIODES MODULE TYPE 200A

Features

- High Surge Capability
- Types Up to 45V V_{RRM}

200Amp Rectifier
20-45 Volts

POWER MOD
TO-249AB



Maximum Ratings

Operating Temperature: -40 °C to +175 °C
Storage Temperature: -40 °C to +175 °C

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FST20020	20V	14V	20V
FST20035	35V	25V	35V
FST20040	40V	28V	40V
FST20045	45V	32V	45V

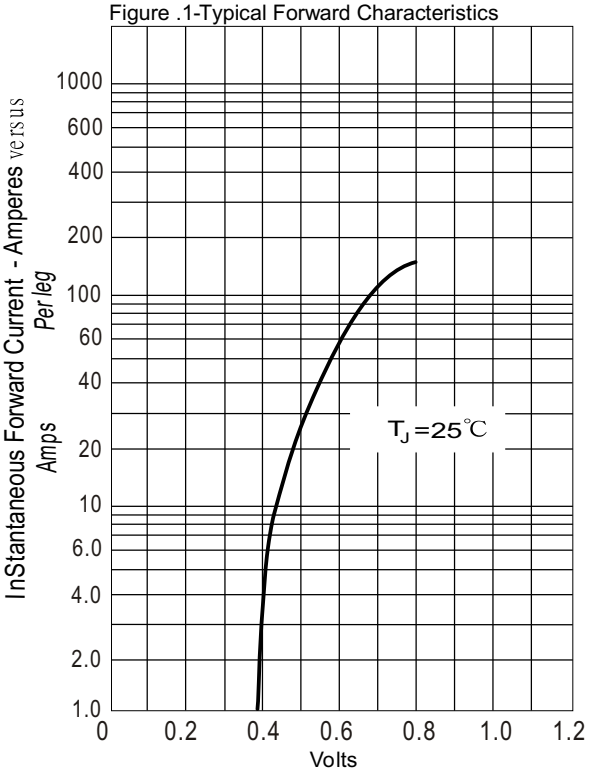
Electrical Characteristics @ 25 °C Unless Otherwise Specified

Average Forward Current (Per Pkg)	$I_{F(AV)}$	200A	T_C =126 °C
Peak Forward Surge Current (Per leg)	I_{FSM}	1500A	8.3ms, half sine
Maximum Instantaneous Forward Voltage (Per leg) NOTE (1)	V_F	0.70V	I_{FM} =100A; T_J = 25 °C
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg) NOTE (1)	I_R	4 mA 600 mA	T_J = 25 °C T_J = 125 °C
Maximum Thermal Resistance Junction To Case	$R_{\theta jc}$	1.0°C/W	

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

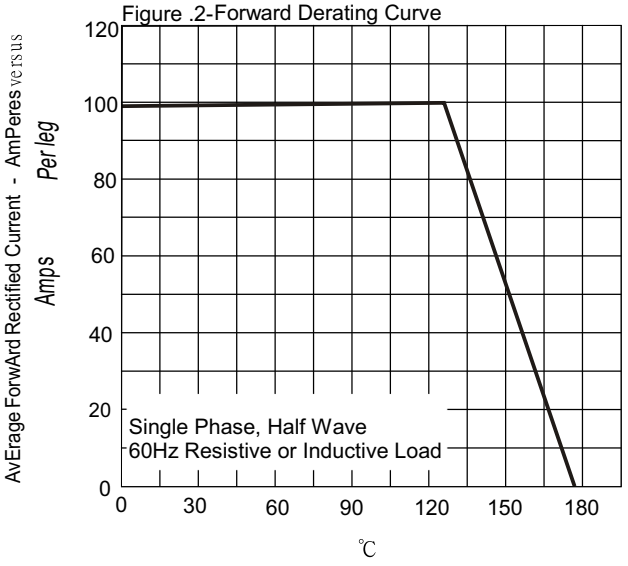
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	1.995	2.005	50.67	50.93	
B	.300	.325	7.62	8.26	
C	.495	.505	12.57	12.83	
D	.182	.192	4.62	4.88	Ø
E	.990	1.010	25.15	26.65	
F	2.390	2.410	60.71	61.21	
G	1.495	1.525	37.90	38.70	
H	.114	.122	2.90	3.10	
J	-----	0.420	-----	10.67	
K	.240	.260	6.10	6.60	
L	.490	.510	12.45	12.95	
M	.330	.350	8.38	8.90	
N	.175	.195	4.45	4.95	Ø
P	.035	.045	0.89	1.14	
R	.445	.455	11.30	11.56	
Q	.890	.910	22.61	23.11	

Figure .1-Typical Forward Characteristics



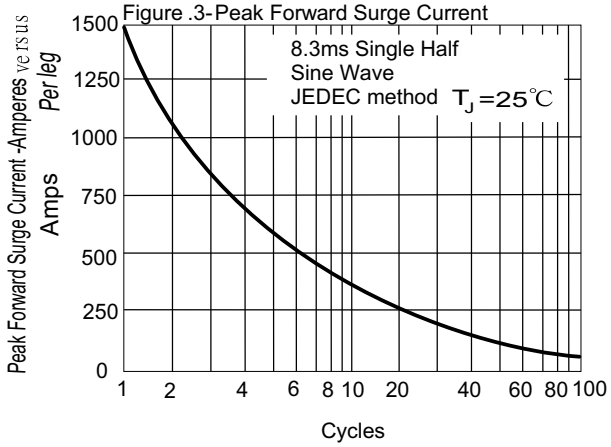
Instantaneous Forward Voltage - Volts

Figure .2-Forward Derating Curve



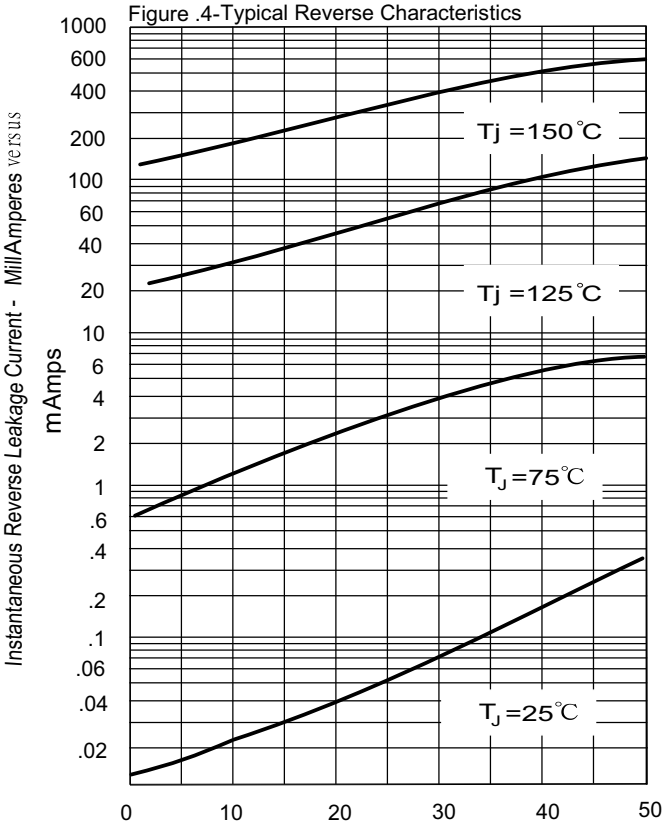
Case Temperature - ℃

Figure .3-Peak Forward Surge Current



Number Of Cycles At 60Hz - Cycles

Figure .4-Typical Reverse Characteristics



Reverse Voltage - Volts