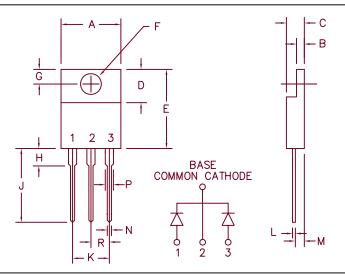
20 Amp Schottky Barrier Rectifiers FST2035 — FST2045



Dim	. Inches	Millimeter			
	Minimum	Maximum	Minimum	Maximum	Notes
ABCDE FGHJKLMZPR	.390 .045 .180 .245 .550 .139 .100 .500 .190 .014 .080 .015	.415 .055 .190 .260 .650 .161 .135 .250 .580 .210 .022 .115 .040 .070	9.91 1.14 4.57 6.22 13.97 3.53 2.54 12.70 4.83 .357 2.03 .380 1.14 2.29	10.54 1.40 4.83 6.60 16.51 4.09 3.43 6.35 14.73 5.33 .559 2.92 1.02 1.78 2.79	Dia.

PLASTIC TO-220AB

Microsemi Catalog Number	ı Industry Part Number	Repetitive Peak Reverse Voltage	Transient Peak Reverse Voltage
FST2035	12CTQ035,15CTQ035 20CTQ035 MBR1535CT,MBR2035C1	35V -	35V
FST2040	12CTQ040,15CTQ040 20CTQ040 MBR1540CT,MBR2040CT	40V -	40V
FST2045	12CTQ045,15CTQ045 20CTQ045 MBR1545CT,MBR2045CT MBR1545CTP,MBR2045C		45 V

- Schottky barrier rectifier
- Guard ring for reverse protection
- Low power loss, high efficiency
- High surge capacity
- VRRM 35 to 45 Volts

Electrical Characteristics

Average Forward Current per pkg.
Average Forward Current per leg
Maximum Surge Current per leg
Max. Peak Forward Voltage per leg
Max. Peak Forward Voltage per leg
Max. Peak Reverse Current per leg
Max. Peak Reverse Current per leg
Typical Junction Capacitance

F(AV) 20 Amps F(AV) 10 Amps FSM 225 Amps FM .48 Volts FM .65 Volts RM 10 mA RM 250 µA C J 660 pF TC = 160°C, Square wave, R0JC = 1.2°C/W TC = 160°C, Square wave, R0JC = 2.4°C/W 8.3ms, half sine, T_J = 175°C TFM = 10A, T_J = 175°C* FFM = 10A, T_J = 25°C* VRRM, T_J = 125°C* VRRM, T_J = 25°C VR = 5.0V, T_J = 25°C

*Pulse test: Pulse width 300 µsec Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temp range Operating junction temp range Max thermal resistance per leg Max thermal resistance per pkg. Mounting torque Weight TSTG TJ ROJC ROJC

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-55°C to 175°C -55°C to 175°C 2.4°C/W 1.2°C/W

15 inch pounds maximum (6-32 screw) .08 ounces (2.3 grams) typical

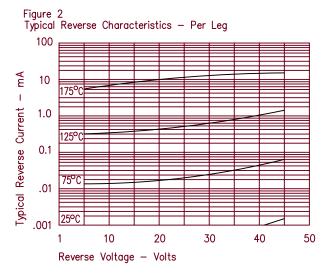


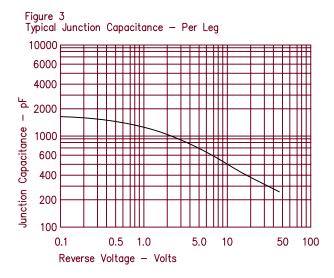
8700 East Thomas Road, P.O. Box 1390 Scottsdale, AZ 85252 PH: (480) 941-6300 FAX: (480) 947-1503

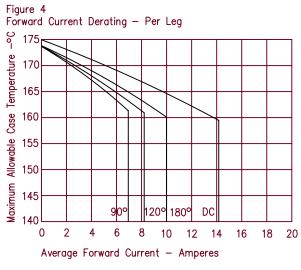
05-17-07 Rev. 3

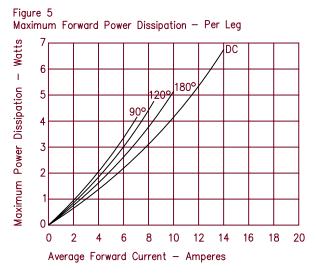
FST2035 - FST2045

Figure 1 Typical Forward Characteristics - Per Leg 1000 800 600 400 200 100 80 60 40 175°C 25PC 1.0 0.4 0.6 0.8 1.0 1.2 1.4 1.6 0.2 Instantaneous Forward Voltage - Volts









Mouser Electronics

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MBR2045CTe3/TU