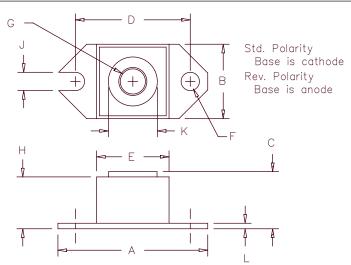
240 Amp Schottky Rectifier HS24035 — HS24045



Dim.	im. Inches Millimeter				
	Minimum	Maximum	Minimum	Maximum	Notes
A B C D	1.52 .725 .605 1.182	1.56 .775 .625 1.192	38.61 18.42 15.37 30.02	39.62 19.69 15.88 30.28	_
E F G H	.745 .152 .525	.755 .160 1/4-20 .580	18.92 3.86 JNC-2B 13.34	19.18 4.06 14.73	Sq. Dia.
J K L	.156 .495 .120	.160 .505 .130	3.96 12.57 3.05	4.06 12.83 3.30	Dia.

Microsemi Catalog Numb	Industry er Part Number		Repetitive Peak Reverse Voltage
	240NQ035,244NQ035 MBRP20035L,MBRP3003 MBR24035	35V	35V
HS24040*	240NQ040,244NQ040 MBR24040	40V	40V
HS24045*	240NQ045,244NQ045 MBR24045	45V	45V
	*Add suffix R for R	everse Polarity	

- Schottky Barrier Rectifier
- Guard ring protection
- Low forward voltage
- VRRM 35 to 45 volts
- 150°C junction temperature
- Reverse energy tested
- ROHS Compliant

Electrical Characteristics

F(AV) 240 Amps $^{T}C=92^{\circ}C,$ square wave, $^{R}\theta JC=0.24^{\circ}C/W$ 8.3 ms, half sine $^{T}J=150^{\circ}C$ Average forward current ĺFЅМ 3500 Amp Maximum surge current 8.5 ms, half sine 'J = 150°C f = 1 KHz, 25°C, 1µsec square wave IFM = 240A: TJ = 125°C* IFM = 240A: TJ = 25°C * VRRM, TJ = 125°C* VRRM, TJ = 25°C VR = 5.0V, TJ = 25°C R(OV) 2 Amps Max repetitive peak reverse current VFM 0.49 Volts Max peak forward voltage VFМ 0.55 Volts Max peak forward voltage ŔМ Max peak reverse current 3.0 A ŔМ 12 mA Max peak reverse current Çj 10500 pF Typical junction capacitance *Pulse test: Pulse width 300 µsec, Duty cycle 2%

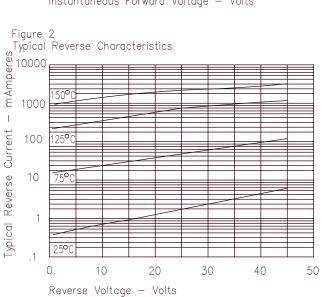
Thermal and Mechanical Characteristics

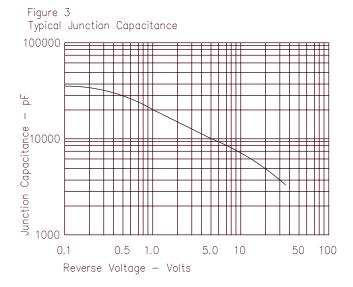
-55°C to 175°C -55°C to 150°C TSTG Storage temp range Operating junction temp range Maximum thermal resistance ΤJ R OJC 0.24°C/W Junction to case Rocs 0.12°C/W Case to sink Typical thermal resistance (greased) 35-40 inch pounds Terminal torque 20-25 inch pounds Mounting torque Weight 1.1 ounces (28 grams)

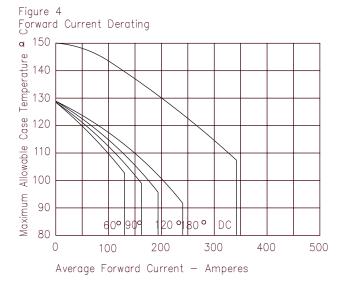


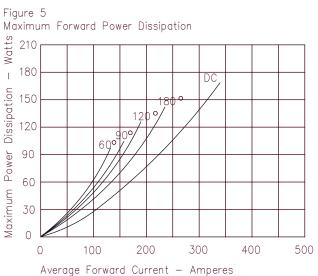
HS24035 - HS24045

Figure 1 Typical Forward Characteristics 10000 8000 6000 4000 2000 1000 800 600 400 Instantaneous Forward Current – Amperes .2 .6 .8 0 .4 1.0 1.2 1.4 Instantaneous Forward Voltage - Volts









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