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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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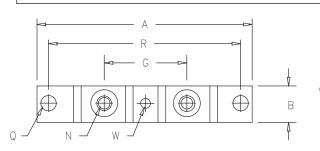
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





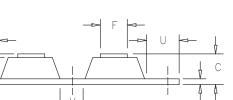


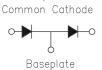
Schottky PowerMod











D=Doubler Notes: Baseplate: Nickel plated copper

Dim. Inches		Millimeters		
Min.	Max.	Min.	Max.	Notes
B 0.700 C E 0.120 F 0.490 G 1.375 H 0.010	0.630 0.130 0.510 BSC 0.290 0 BSC 0.340	34.92 0.25 6.99 80.0 15.24 7.92	16.00 3.30 12.95 2 BSC 7.37 1 BSC	1/4-20 Dia.

Microsemi Catalog Number	Industry Part Number		Repetitive Peak Reverse Voltage		
CPT40080*	403CNQ080 MBR40080CT	80V	80V		
CPT40090*	MBR40080C1	90V	90V		
CPT400100*	403CNQ100 MBRP400100CTL	100V	100V		
MBR400100CT					
*Add Su:	ffix A for Comm	on Anode D for	Doubler		

- Schottky Barrier Rectifier
- Guard Ring Protection
- 400 Amperes/80-100 Volts
- 175°C Junction Temperature
- Reverse Energy Tested
- ROHS Compliant

Electrical Characteristics

Average forward current per pkg Average forward current per leg Maximum surge current per leg Maximum repetitive reverse current per leg ^IR(OV)2 Amps Max peak forward voltage per lea VFM .89 Volts 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 per leg

F(AV) 200 Amps IFŜM 3000 Amps .89 Volts V_{FM} .69 Volts 1_{RM} 50 mA ^IRM 5.0 mA 4400 pF

F(AV) 400 Amps

TC = 121°C, Square wave, $^{R}\Theta JC = 0.16$ °C/W TC = 121°C, Square wave, $^{R}\Theta JC = 0.32$ °C/W 8.3ms, half sine, $^{T}J = 175$ °C f = 1 KHZ, 25°C, 1 $^{\mu}$ sec square wave $^{T}FM = 200A$: $^{T}J = 25$ °C* $^{T}FM = 200A$: $^{T}J = 175$ °C*

 $VRRM, TJ = 125^{\circ}C^{*}$

 $VRRM,^TJ = 25^{\circ}C$ $V_R = 5.0V, T_C = 25^{\circ}C$

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

Thermal and Mechanical Characteristics

 $\mathsf{T}\mathsf{S}\mathsf{T}\mathsf{G}$

Storage temp range ΤJ Operating junction temp range R OJC R OJC Max thermal resistance per leg Max thermal resistance per pkg Recs Typical thermal resistance (greased) Terminal Torque Mounting Base Torque (outside holes) Mounting Base Torque (center hole) center hole must be torqued first Weight

-55℃ to 175℃ -55°C to 175°C 0.32°C/W Junction to case 0.16°C/W Junction to case 0.08°C/W Case to sink 35-40 inch pounds 30-40 inch pounds 8-10 inch pounds

2.8 ounces (77 grams) typical



CPT40080-CPT400100

Figure 1 Typical Forward Characteristics — Per Leg

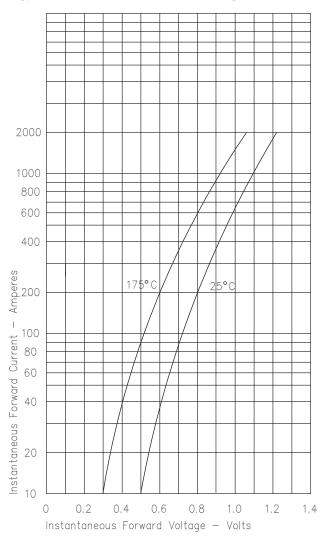
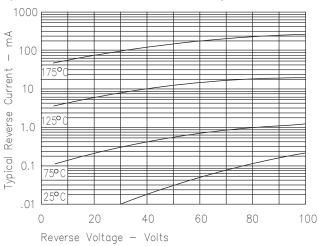
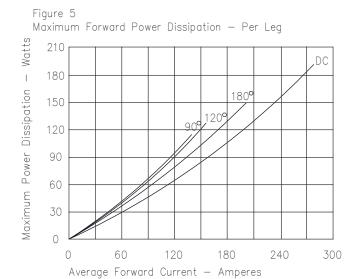


Figure 3 Typical Junction Capacitance - Per Lea 100,000_F 60,000 40,000 20,000 Junction Capacitance 10,000 6000 4000 2000 1000 0.1 0.5 1.0 5.0 10 50 100 Reverse Voltage - Volts

Figure 4 Forward Current Derating — Per Leg 01 175 Maximum Allowable Case Temperature 165 155 145 135 125 115 1800 105 120 180 240 300 Average Forward Current - Amperes

Figure 2 Typical Reverse Characteristics — Per Leg







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