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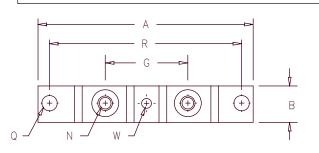
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



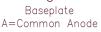




Schottky PowerMod CPT50060













Notes: Baseplate: Nickel plated copper

Dim. Ir	nches	Millimeters		
Min.	Max.	Min.	Max.	Notes
A B 0.700 C E 0.120 F 0.490 G 1.375 H 0.010	0.680 0.130 0.510		92.20 20.32 17.28 3.30 12.95 2 BSC	
N Q 0.275 R 3.15 U 0.600 V 0.312 W 0.180	0.290 0 BSC			1/4-20 Dia.

		Working Peak Reverse Voltage	
CPT50060*	MBR50060CT	60V	60V

*Add Suffix A for Common Anode, D for Doubler

- Schottky Barrier Rectifier
- Guard Rina Protection
- 500 Amperes/60 Volts
- 175°C Junction Temperature
- Reverse Energy Tested
- ROHS Compliant

Electrical Characteristics

|F(AV) 500 Amps Average forward current per pkg F(AV) 250 Amps Average forward current per leg FSM 5000 Amps Maximum surge current per leg Maximum repetitive reverse current per leg ^IR(OV) 2 Amps Max peak forward voltage per lea VFM 0.73 Volt 0.73 Volts Max peak forward voltage per leg V_{FM} Max peak forward voltage per leg 0.58 Volts ^IRM Max peak reverse current per leg 200 mA ^IRM Max peak reverse current per leg 8.0 mA Typical junction capacitance 8800 pF

TC = 132°C, Square wave, R0JC = 0.12°C/W TC = 132°C, Square wave, R0JC = 0.24°C/W 8.3ms, half sine, TJ = 175°C f = 1 KHZ, 25°C, 1µsec square wave IFM = 250A:TJ = 25°C IFM = 250A:TJ = 175°C VRRM, TJ = 125°C* VRRM, TJ = 25°C VR = 5.0V, TC = 25°C

*Pulse test: Pulse width 300 \u03cmsec, Duty cycle 2%

Thermal and Mechanical Characteristics TSTG -55℃ to 175℃ Storage temp range ΤJ Operating junction temp range -55°C to 175°C 0.24°C/W Junction to case 0.12°C/W Junction to case R OJC Max thermal resistance per leg ROJC Max thermal resistance per pkg Recs 0.08°C/W Case to sink Typical thermal resistance (greased) Terminal Torque 35-40 inch pounds Mounting Base Torque (outside holes) Mounting Base Torque (center hole) center hole must be torqued first 30-40 inch pounds 8-10 inch pounds



Weight

2.8 ounces (78 grams) typical

CPT50060

Figure 1 Typical Forward Characteristics — Per Leg

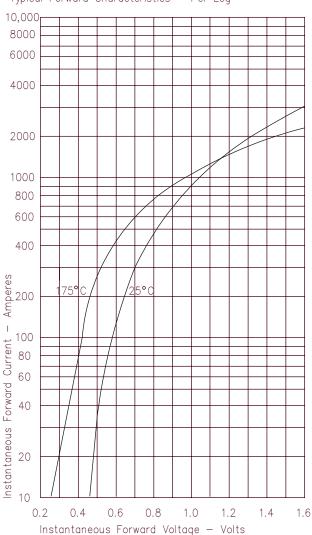


Figure 3 Typical Junction Capacitance — Per Leg 60,000 40,000 20,000 Junction Capacitance 10,000 6000 4000 2000 1000 0.1 0.5 1.0 5.0 10 50 100 Reverse Voltage - Volts

Figure 4

Forward Current Derating — Per Leg

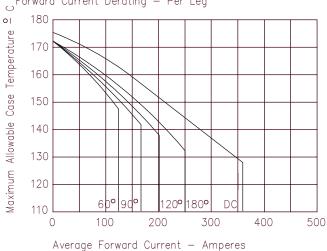


Figure 2 Typical Reverse Characteristics — Per Leg

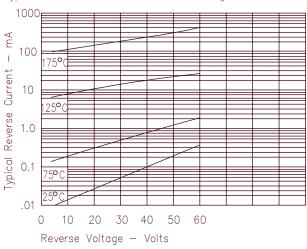
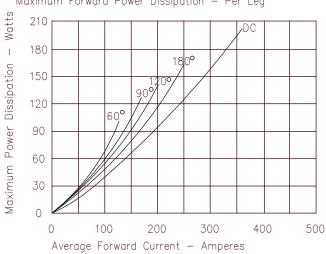


Figure 5 Maximum Forward Power Dissipation — Per Leg





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