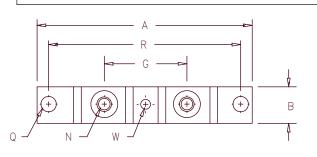
Schottky PowerMod











D=Doubler

Notes: Baseplate: Nickel plated L copper

Dim. Inches		Millimeters		
Min.	Max.	Min.	Max.	Notes
A B 0.700 C E 0.120 F 0.490 G 1.375 H 0.010 N Q 0.275 R 3.150 U 0.600 V 0.312 W 0.180	0.510 BSC 0.290 0 BSC 	12.45 34.92 0.25 6.99 80.0°	7.37 BSC	1/4-20 Dia.

Microsemi CPT30060*

Industry MBRP20060CT

Working Peak Catalog Number Part Number Reverse Voltage Reverse Voltage 60V

Repetitive Peak 60V

MBRP30060CT MBR20060CT MBR30060CT

*Add Suffix A for Common Anode, D for Doubler

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

Electrical Characteristics

|F(AV) 300 Amps Average forward current per pkg F(AV) 150 Amps Average forward current per leg Maximum surge current per leg Maximum repetitive reverse 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 per leg

^lFSM 2000 Amps JR(OV) 2 Amps VFM .82 Volts V_{FM} .68 Volts 75 mA ^IRM ^I RM 4.0 mA C_{J} 4300 pF

 ^{T}C = 127°C, Square wave, $^{R}\Theta JC$ = 0.20°C/W ^{T}C = 127°C, Square wave, $^{R}\Theta JC$ = 0.40°C/W 8.3ms, half sine, $\overline{J} = 175^{\circ}\text{C}$ f = 1 KHZ, 25°C, 1µsec square wave $\overline{J} = 2004^{\circ}\text{T}$ J = 25°C* $\overline{J} = 2004^{\circ}\text{T}$ J = 175°C*

VRRM, TJ = 125°C* VRRM, TJ = 25°C $V_R = 5.0V, T_C = 25^{\circ}C$

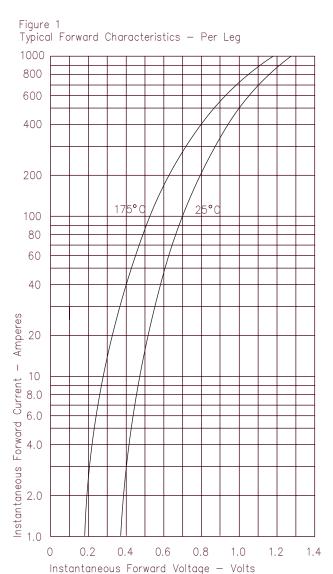
*Pulse test: Pulse width 300 µsec, Duty cycle 2%

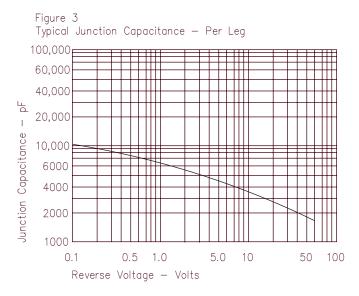
Thermal and Mechanical Characteristics

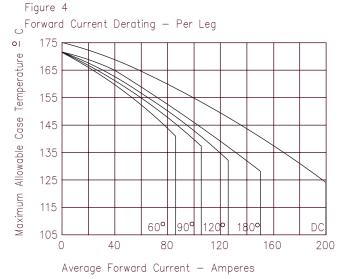
-55°C to 175°C -55°C to 175°C TSTG Storage temp range ΤJ Operating junction temp range 0.40°C/W Junction to case R OJC Max thermal resistance per leg R OJC Max thermal resistance per pkg 0.20°C/W Junction to case Recs 0.08°C/W Case to sink Typical thermal resistance (greased) 35-50 inch pounds 30-40 inch pounds Terminal Torque Mounting Base Torque (outside holes) Mounting Base Torque (center hole) center hole must be torqued first 8-10 inch pounds 2.8 ounces (75 grams) typical Weight

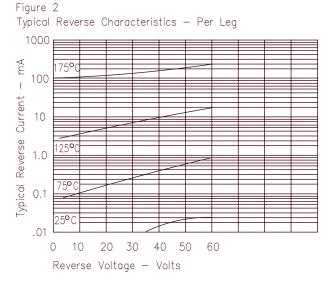


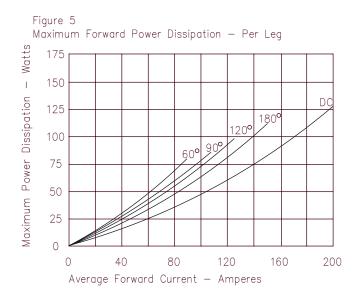
CPT30060













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