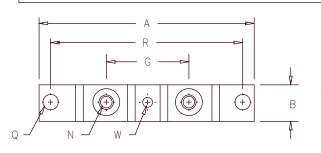
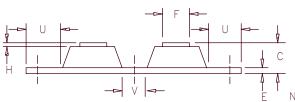
Schottky PowerMod





Baseplate A=Common Anode





Baseplate Common Cathode

> Baseplate D=Doubler

Notes: Baseplate: Nickel plated 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 O 0.275	0.800 0.630 0.130 0.510 BSC 	3.05 12.45 34.92 0.25	12.95	1/4-20 Dia.
R 3.15 U 0.600 V 0.312 W 0.180	0 BSC .340	80.0 ⁻ 15.24	1 BSC 	Dia.

Microsemi CPT30060* Industry

MBRP20060CT MBRP30060CT

Working Peak Repetitive Peak Catalog Number Part Number Reverse Voltage Reverse Voltage

60V

60V

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

Average forward current per pkg 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

|F(AV) 300 Amps F(AV) 150 Amps ^lFSM 2000 Amps JR(OV) 2 Amps VFM .82 Volts V_{FM} .68 Volts 75 mA RM ^I RM 4.0 mA

 ^{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%

4300 pF

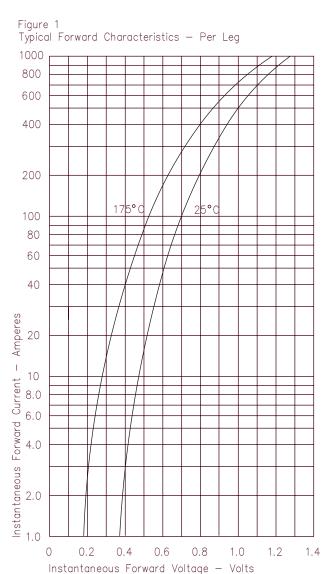
Thermal and Mechanical Characteristics

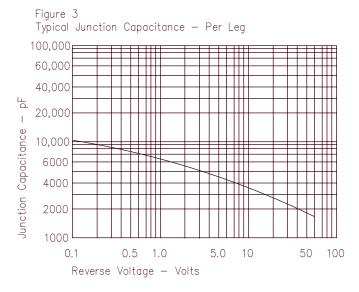
-55°C to 175°C -55°C to 175°C TSTG Storage temp range ΤJ Operating junction temp range 0.40°C/W Junction to case R OJC Max thermal resistance per leg R OJC Max thermal resistance per pkg 0.20°C/W Junction to case Recs 0.08°C/W Case to sink Typical thermal resistance (greased) 35-50 inch pounds 30-40 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

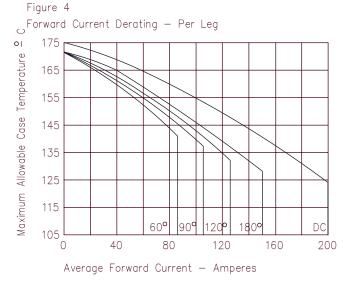
 C_{J}

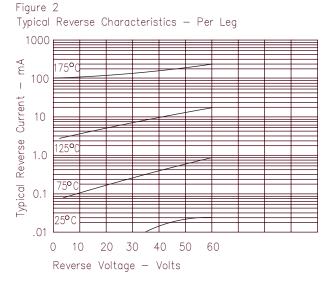


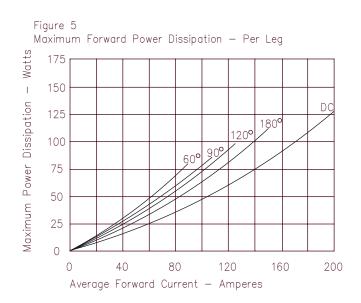
CPT30060











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