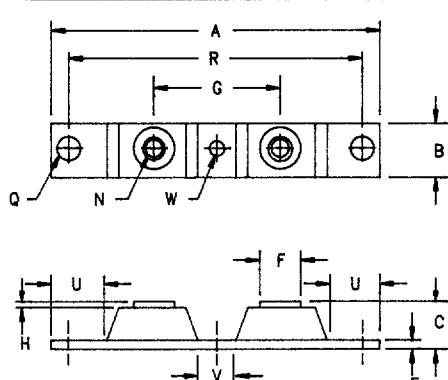


Schottky PowerMod

CPT30060



Dim.	Inches		Millimeters		Notes
	Min.	Max.	Min.	Max.	
A	---	3.630	---	92.20	
B	0.700	0.800	17.78	20.32	
C	---	0.630	---	16.00	
E	0.120	0.130	3.05	3.30	
F	0.490	0.510	12.45	12.95	
G	1.375	BSC	34.92	BSC	
H	0.010	---	0.25	---	
N	---	---	---	---	1/4-20
O	0.275	0.290	6.99	7.37	Dia.
R	3.150	BSC	80.01	BSC	
U	0.600	---	15.24	---	
V	0.312	0.340	7.92	8.64	
W	0.180	0.195	4.57	4.95	Dia.

Microsemi
Catalog Number

Working Peak
Reverse Voltage

Repetitive Peak
Reverse Voltage

CPT30060*

60V

60V

- Schottky Barrier Rectifier
- Guard Ring Protection
- VRM 60 Volts
- 175°C Junction Temperature
- Reverse Energy Tested

*Add Suffix A for Common Anode, D for Doubler

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

|F(AV) 300 Amps
|F(AV) 150 Amps
|FSM 2000 Amps
|R(OV) 2 Amps
VFM .82 Volts
VFM .68 Volts
|RM 75 mA
|RM 4.0 mA
C_J 4300 pF

T_C = 127°C, Square wave, R_{θJC} = 0.20°C/W
T_C = 127°C, Square wave, R_{θJC} = 0.40°C/W
8.3ms, half sine, T_J = 175°C
f = 1 KHz, 25°C, 1 usec square wave
I_{FM} = 200A; T_J = 25°C
I_{FM} = 200A; T_J = 175°C
VRM, T_J = 125°C
VRM, T_J = 25°C
V_R = 5.0V, T_C = 25°C

*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

Thermal and Mechanical Characteristics

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

T_{STG}
T_J
R_{θJC}
R_{θCS}
50 inch pounds maximum
40 inch pounds maximum
10 inch pounds maximum
2.8 ounces (78.3 grams) typical

PH: 303-469-2161
FAX: 303-466-3775

CPT30060

C

Figure 1
Typical Forward Characteristics - Per Leg

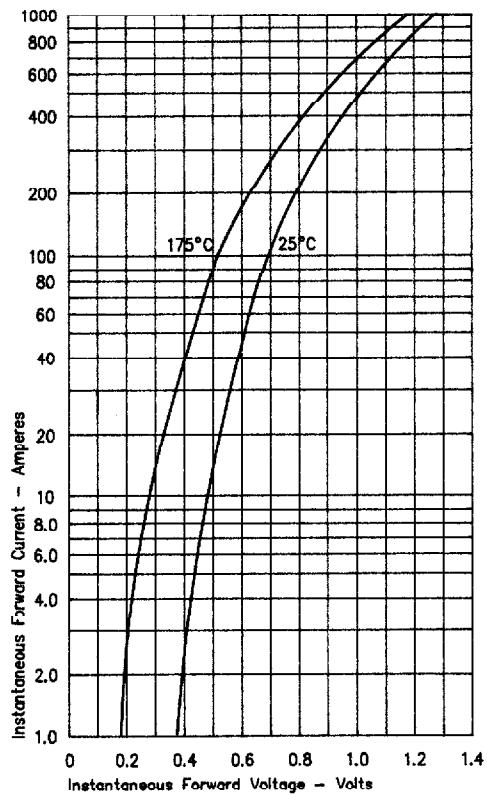


Figure 3
Typical Junction Capacitance - Per Leg

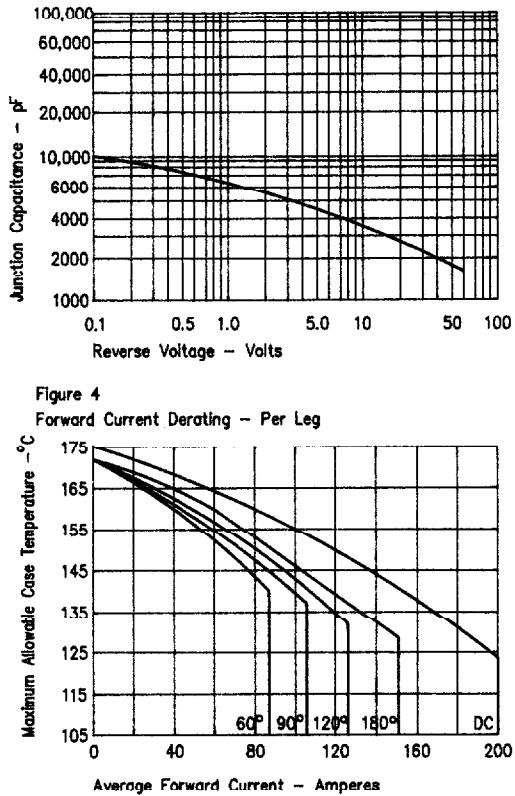


Figure 4
Forward Current Derating - Per Leg

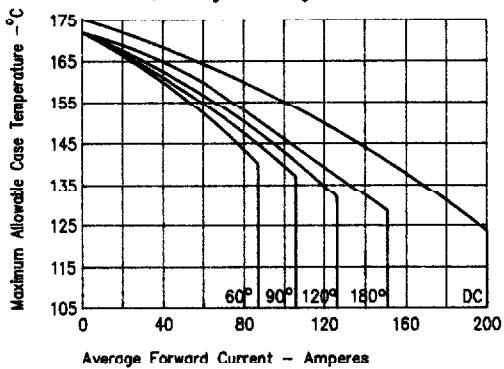


Figure 2
Typical Reverse Characteristics - Per Leg

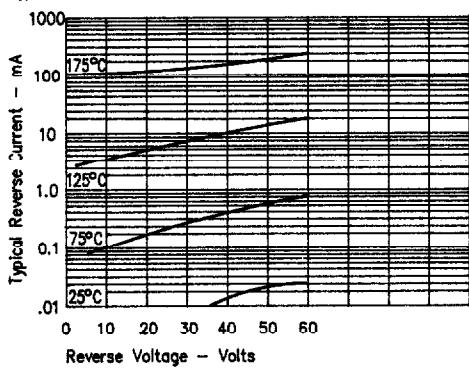


Figure 5
Maximum Forward Power Dissipation - Per Leg

