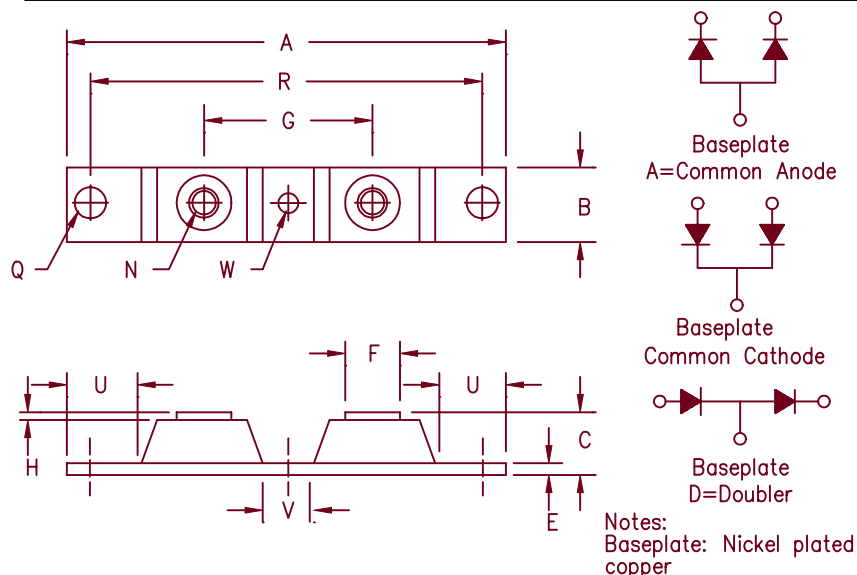


Schottky PowerMod

查询"CPT60050"供应商 CPT60050 — CPT60060



Dim. Inches		Millimeters		Notes
Min.	Max.	Min.	Max.	
A	---	3.630	---	92.20
B	0.700	0.800	17.78	20.32
C	---	0.680	---	17.28
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 Dia.
Q	0.275	0.290	6.99	7.37
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
CPT60050*	50V	50V
CPT60060*	60V	60V

*Add Suffix A for Common Anode, D for Doubler

- Schottky Barrier Rectifier
- Guard Ring Protection
- 600 Amperes/50 to 60 Volts
- 175°C Junction Temperature
- Reverse Energy Tested

Electrical Characteristics

Average forward current per pkg	$I_F(AV)$ 600 Amps	$T_C = 136^\circ C$, Square wave, $R_{\theta JC} = 0.10^\circ C/W$
Average forward current per leg	$I_F(AV)$ 300 Amps	$T_C = 136^\circ C$, Square wave, $R_{\theta JC} = 0.20^\circ C/W$
Maximum surge current per leg	I_{FSM} 6000 Amps	8.3ms, half sine, $T_J = 175^\circ C$
Maximum repetitive reverse current per leg	$I_{R(OV)}$ 2 Amps	$f = 1$ KHZ, $25^\circ C$, $1 \mu sec$ square wave
Max peak forward voltage per leg	V_{FM} 0.72 Volts	$I_{FM} = 300A$; $T_J = 25^\circ C$
Max peak forward voltage per leg	V_{FM} 0.58 Volts	$I_{FM} = 300A$; $T_J = 175^\circ C$
Max peak reverse current per leg	I_{RM} 75 mA	V_{RRM} , $T_J = 125^\circ C^*$
Max peak reverse current per leg	I_{RM} 8.0 mA	V_{RRM} , $T_J = 25^\circ C$
Typical junction capacitance per leg	C_J 11,100 pF	$V_R = 5.0V$, $T_C = 25^\circ C$

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

Thermal and Mechanical Characteristics

Storage temp range	T_{STG}	$-55^\circ C$ to $175^\circ C$
Operating junction temp range	T_J	$-55^\circ C$ to $175^\circ C$
Max thermal resistance per leg	$R_{\theta JC}$	$0.20^\circ C/W$ Junction to case
Max thermal resistance per pkg	$R_{\theta JC}$	$0.10^\circ C/W$ Junction to case
Typical thermal resistance (greased)	$R_{\theta CS}$	$0.08^\circ C/W$ Case to sink
Terminal Torque		35-50 inch pounds
Mounting Base Torque (outside holes)		30-40 inch pounds
Mounting Base Torque (center hole)		8-10 inch pounds
center hole must be torqued first		
Weight		2.8 ounces (78 grams) typical

CPT60050 — CPT60060

[查询"CPT60050"供应商](#)

Figure 1

Typical Forward Characteristics — Per Leg

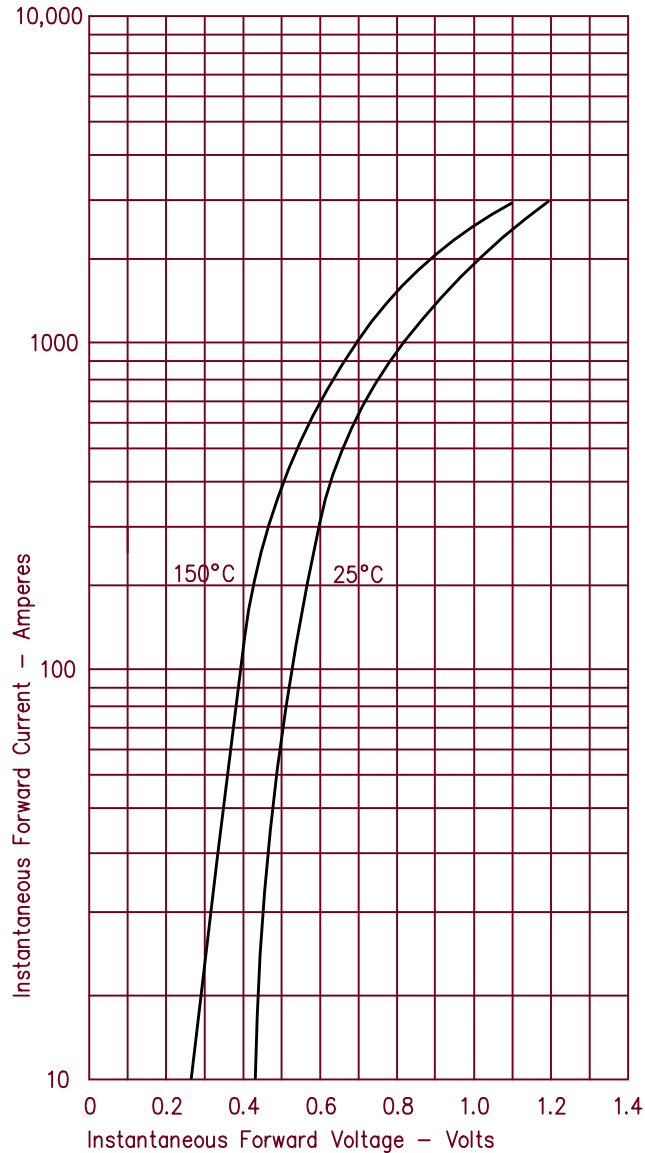


Figure 2

Typical Reverse Characteristics — Per Leg

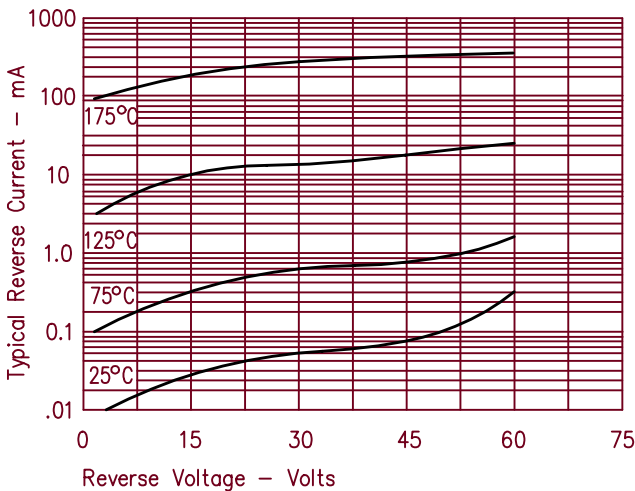


Figure 3

Typical Junction Capacitance — Per Leg

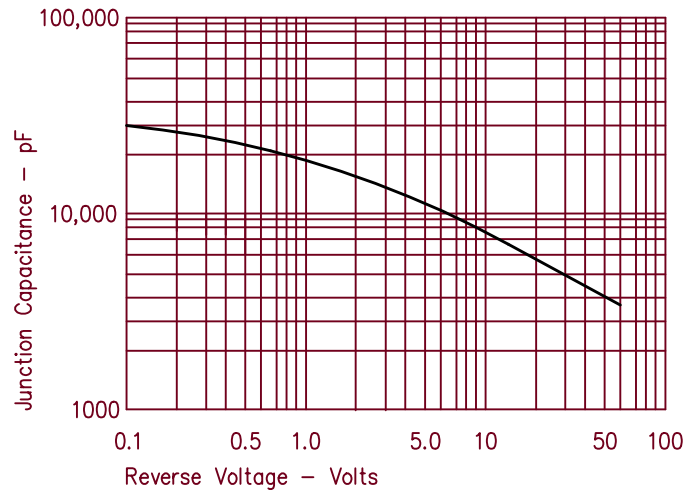


Figure 4

Forward Current Derating — Per Leg

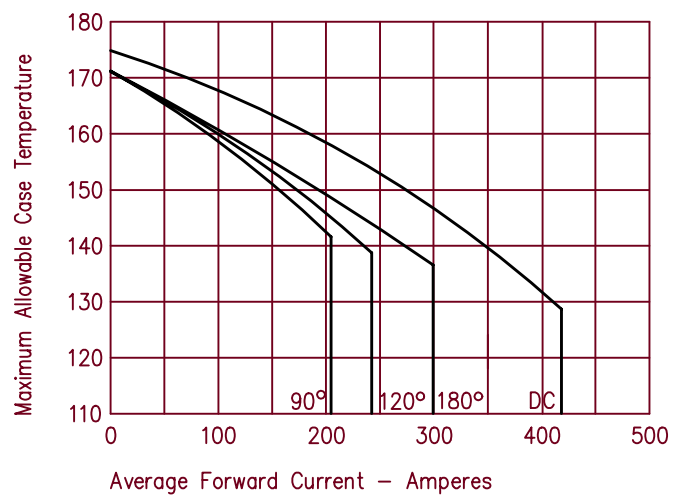


Figure 5

Maximum Forward Power Dissipation — Per Leg

