imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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!



Contact us

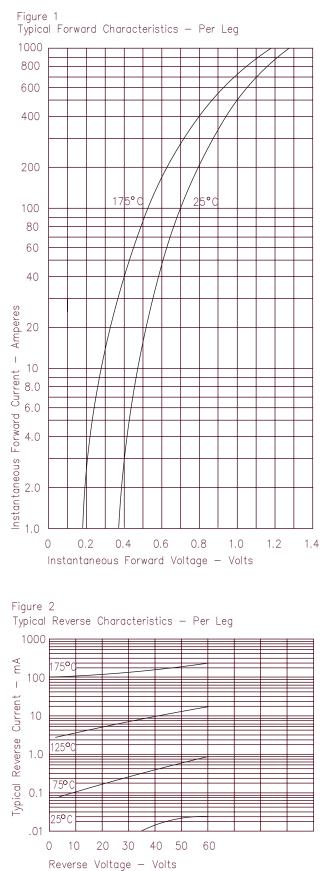
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

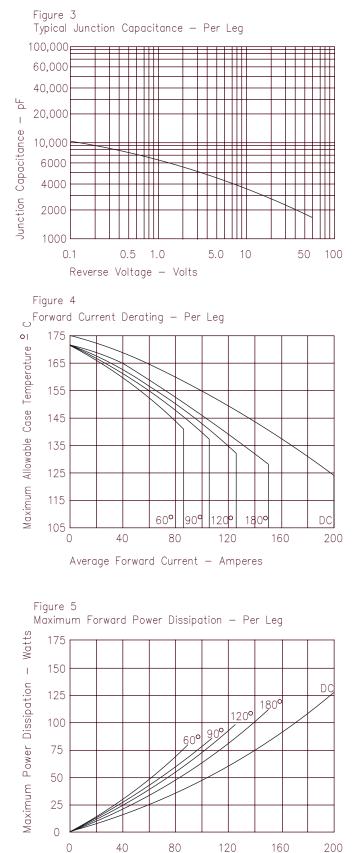


Schottky Powe	erMod
CPT300	60
A A	
	Dim. Inches Millimeters
	Min. Max. Min. Max. Note
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	A 3.630 92.20 B 0.700 0.800 17.78 20.32 C 0.630 16.00 E 0.120 0.130 3.05 3.30 F 0.490 0.510 12.45 12.95 G 1.375 BSC 34.92 BSC H 0.010 0.25 N 1/4- Q 0.275 0.290 6.99 7.37 Dia.
Baseplate D=Doubler Notes: Baseplate: Nickel plated copper	R 3.150 BSC 80.01 BSC U 0.600 15.24 V 0.312 .340 7.92 8.64 W 0.180 0.195 4.57 4.95 Dia.
Microsemi Industry Working Peak Repetitive Peak Catalog Number Part Number Reverse Voltage Reverse Voltage CPT30060* MBRP20060CT 60V 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 Characteris	tics
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	TC = 127°C, Square wave, $R \Theta JC = 0.20°C/TC = 127°C$, Square wave, $R \Theta JC = 0.40°C/8.3 ms$, half sine, $J = 175°C$ f = 1 KHZ, 25°C, 1µsec square wave FM = 200A:TJ = 25°C* FM = 200A:TJ = 175°C* VRRM, $TJ = 125°C*$ VRRM, $TJ = 125°C*$ VRRM, $TJ = 25°C$ VR = 5.0V, $TC = 25°C$
Thermal and Mechanical Cha	
Storage temp rangeI STGOperating junction temp rangeTJMax thermal resistance per legR ØJCMax thermal resistance per pkgR ØJCTypical thermal resistance (greased)R ØCSTerminal TorqueMounting Base Torque (outside holes)Mounting Base Torque (center hole)center hole must be torqued first	 -55°C to 175°C -55°C to 175°C 0.40°C/W Junction to case 0.20°C/W Junction to case 0.08°C/W Case to sink 35-50 inch pounds 30-40 inch pounds 8-10 inch pounds 2.8 ounces (75 grams) typical



CPT30060





Average Forward Current - Amperes



DISCLAIMER

The information contained in the document (unless it is publicly available on the Web without access restrictions) is PROPRIETARY AND CONFIDENTIAL information of Microsemi and cannot be copied, published, uploaded, posted, transmitted, distributed or disclosed or used without the express duly signed written consent of Microsemi. If the recipient of this document has entered into a disclosure agreement with Microsemi, then the terms of such Agreement will also apply. This document and the information contained herein may not be modified, by any person other than authorized personnel of Microsemi. No license under any patent, copyright, trade secret or other intellectual property right is granted to or conferred upon you by disclosure or delivery of the information, either expressly, by implication, inducement, estoppels or otherwise. Any license under such intellectual property rights must be approved by Microsemi in writing signed by an officer of Microsemi.

Microsemi reserves the right to change the configuration, functionality and performance of its products at anytime without any notice. This product has been subject to limited testing and should not be used in conjunction with lifesupport or other mission-critical equipment or applications. Microsemi assumes no liability whatsoever, and Microsemi disclaims any express or implied warranty, relating to sale and/or use of Microsemi products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right. Any performance specifications believed to be reliable but are not verified and customer or user must conduct and complete all performance and other testing of this product as well as any user or customers final application. User or customer shall not rely on any data and performance specifications or parameters provided by Microsemi. It is the customer's and user's responsibility to independently determine suitability of any Microsemi product and to test and verify the same. The information contained herein is provided "AS IS, WHERE IS" and with all faults, and the entire risk associated with such information is entirely with the User. Microsemi specifically disclaims any liability of any kind including for consequential, incidental and punitive damages as well as lost profit. The product is subject to other terms and conditions which can be located on the web at http://www.microsemi.com/legal/tnc.asp

Life Support Application

Seller's Products are not designed, intended, or authorized for use as components in systems intended for space, aviation, surgical implant into the body, in other applications intended to support or sustain life, or for any other application in which the failure of the Seller's Product could create a situation where personal injury, death or property damage or loss may occur (collectively "Life Support Applications").

Buyer agrees not to use Products in any Life Support Applications and to the extent it does it shall conduct extensive testing of the Product in such applications and further agrees to indemnify and hold Seller, and its officers, employees, subsidiaries, affiliates, agents, sales representatives and distributors harmless against all claims, costs, damages and expenses, and attorneys' fees and costs arising, directly or directly, out of any claims of personal injury, death, damage or otherwise associated with the use of the goods in Life Support Applications, even if such claim includes allegations that Seller was negligent regarding the design or manufacture of the goods.

Buyer must notify Seller in writing before using Seller's Products in Life Support Applications. Seller will study with Buyer alternative solutions to meet Buyer application specification based on Sellers sales conditions applicable for the new proposed specific part.



www.microsemi.com