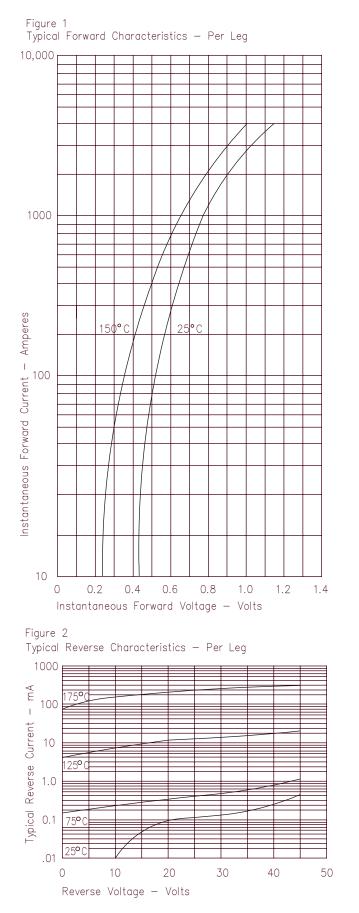
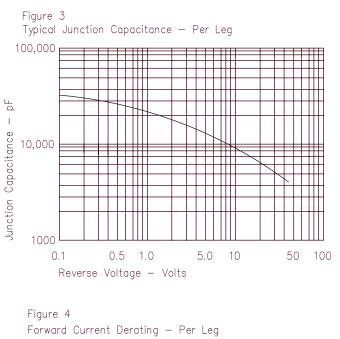
Schottky Powe CPT60035 - C	erMod CPT60045
A R G H K K K K K K K K K K K K K	Dim. Inches Millimeters Min. Max. Min. Max. Notes A 3.630 92.20 B 0.700 0.800 17.78 20.32 C 0.680 17.28 E 0.120 0.130 3.05 3.30 F 0.490 0.510 12.45 12.95 G 1.375 BSC 34.92 BSC H 0.010 0.25 N 1/4-20 Q Q 0.275 0.290 6.99 7.37 Dia. R 3.150 BSC 80.01 BSC U 0.600 15.24 V 0.312 0.340 7.92 8.64 W 0.180 Dia.
Microsemi Industry Working Peak Repetitive Peak Catalog Number Part Number Reverse Voltage Reverse Voltage CPT60035* MBRP60035CTL 35V 35V CPT60040* 40V 40V CPT60045* 45V 45V *Add Suffix A for Common Anode, D for Doubler	 Schottky Barrier Rectifier Guard Ring Protection 600 Amperes/35 to 45 Volts 175°C Junction Temperature Reverse Energy Tested ROHS Compliant
Electrical Characteris	tics
Average forward current per legI F(AV) 300 AmpsTMaximum surge current per legI FSM 6000 Amps8Maximum repetitive reverse current per legI R(OV) 2 Amps1Max peak forward voltage per legVFM 0.65 Volts1Max peak forward voltage per legVFM 0.52 Volts1Max peak reverse current per legI RM 75 mAVMax peak reverse current per legI RM 8.0 mAV	C = 139°C, Square wave, ReJC = 0.10°C/W C = 139°C, Square wave, ReJC = 0.20°C/W 3.3ms, half sine, J = 175°C f = 1 KHZ, 25°C, 1µsec square wave FM = 300A:TJ = 25°C FM = 300A:TJ = 175°C /RRM, TJ = 125°C* /RRM, TJ = 25°C /R = 5.0V, TC = 25°C
*Pulse test: Pulse width 300µsec, [Duty cycle 2%
Thermal and Mechanical Cha	racteristics
Storage temp rangeTSTGOperating 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 0.20°C/W Junction to case 0.10°C/W Junction to case 0.08°C/W Case to sink 35-40 inch pounds 30-40 inch pounds 8-10 inch pounds

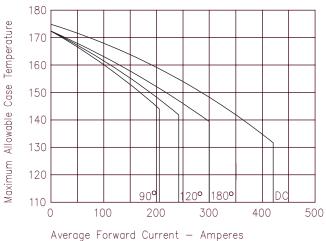


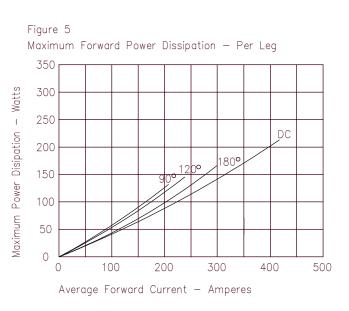
CPT60035



CPT60045







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.