

Features

- · Fast Switching Speed
- · High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- Halogen Free. "Green" Device (Note 1)
- · Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

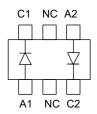
Maximum Ratings

- · Operating Junction Temperature Range: 150°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance:833°C/W Junction to Ambient

MCC Part Number	Device Marking	Repetitive Peak Reverse Voltage V _{RRM}	RMS Reverse Voltage V _{R(RMS)}	DC Blocking Voltage V _R
MMBD4448V	KAL	80V	57V	80V
Non-Repetitive Peak Reverse Voltage	V_{RM}	100V		
Working Peak Reverse Voltage	V_{RWM}	80V		
Forward Continuous Current	I _{FM}	500mA		
Average Rectified Output Current	I _o	250mA		
Peak Forward Surge Current	I _{FSM}	4.0A 2.0A	@1.0µs @1.0s	
Power Dissipation	P _D	150mW		

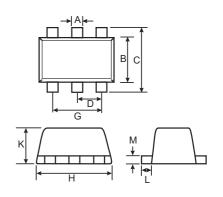
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



150mW Switching Diode

SOT-563



	DIMENSIONS							
DIM	INCHES		MM		NOTE			
	MIN	MAX	MIN	MAX	NOIL			
Α	0.006	0.011	0.15	0.30				
В	0.043	0.051	1.10	1.30				
С	0.059	0.067	1.50	1.70				
D	0.020		0.50		TYP.			
G	0.035	0.043	0.90	1.10				
Н	0.059	0.067	1.50	1.70				
K	0.022	0.026	0.55	0.65				
L	0.004	0.011	0.10	0.30				
М	0.004	0.007	0.10	0.18				

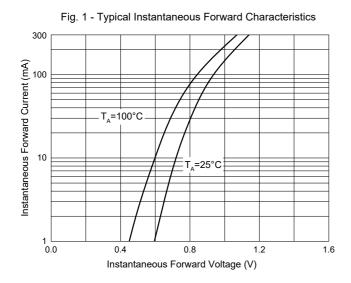


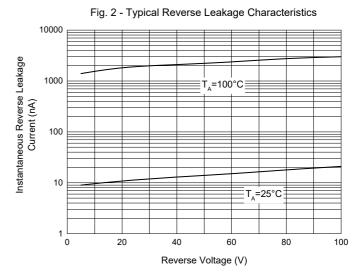
Electrical Characteristics @ 25°C Unless Otherwise Specified

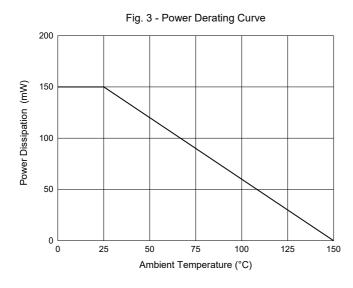
Minimum Breakdown Voltage	V_{BR}	80V	I _R =2.5μA
Maximum Forward Voltage	V _F	0.720V 0.855V 1.000V 1.250V	I _F =5.0mA I _F =10.0mA I _F =50.0mA I _F =150.0mA
Maximum Peak Reverse voltage	I _R	0.1μA 25nA	V _R =70V V _R =20V
Maximum Total Capacitance	Ст	3.5pF	V _R =6.0V,f=1.0MHz
Maximum Reverse Recovery Time	t _{rr}	4.0ns	V _R =6.0V,I _F =5.0mA



Curve Characteristics









Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp**. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp**, and all the companies whose products are represented on our website, harmless against all damages. **Micro Commercial Components Corp**, products are sold subject to the general terms and conditions of commercial sale, as published at

https://www.mccsemi.com/Home/TermsAndConditions.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.