

Features

- · High Surge Forward Current Capability
- Low Forward Voltage Drop and Low Power Losses
- Lead Free Finish/RoHS Compliant (Note 1)("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 2)
- Moisture Sensitivity Level 1

5 Amp Low VF Schottky Rectifier 60 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

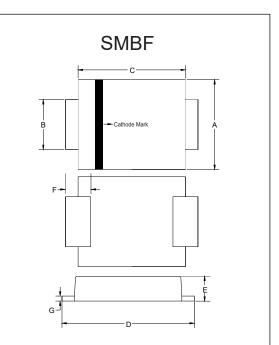
Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V _{RWM}	60	V
DC Blocking Voltage	V_R		
RMS Reverse Voltage	V _{RMS}	42	\
Average Rectified Forward Current @ T _C =105°C	I _{F(AV)}	5	Α
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	120	Α
Current Squared Time @1ms≤t≤8.3ms	l ² t	60	A ² s

Internal Structure

Pin	Description	Simplified outline	Graphic symbol
1	cathode	1 MCC 2	
2	anode	SL56	1 0

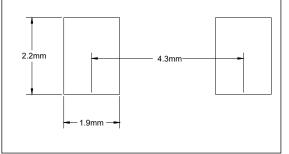
Note:

- 1. High temperature solder exemption applied, see EU directive annex 7a.
- 2. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.



DIMENSIONS					
DIM	INCHES		M	М	NOTE
DIIVI	MIN	MAX	MIN	MAX	NOIL
Α	0.134	0.150	3.40	3.80	
В	0.075	0.083	1.90	2.10	
С	0.163	0.175	4.15	4.45	
D	0.201	0.220	5.10	5.60	
E	0.041	0.061	1.05	1.55	
F	0.028	0.053	0.70	1.35	
G	0.006	0.010	0.15	0.25	

Suggested Solder Pad Layout





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-C)	Thermal Resistance from Junction to Case	Note 1		15		°C/W
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		25		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		65		°C/W

Note:

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =5A;T _J =25°C I _F =5A;T _J =125°C			0.50 0.47	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			0.5 50	mA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		270		pF

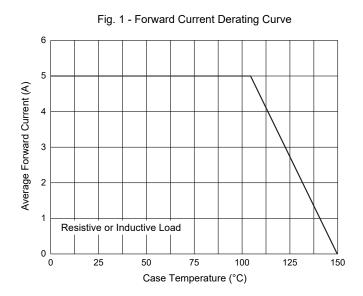
 $^{1.} Mounted \ on \ P.C.B. \ with \ 5mm^*5mm \ copper \ pad \ areas.$



0.1 - 0.0

0.2

Curve Characteristics



T_J=125°C

T_J=75°C

T_J=25°C

0.4

Forward Voltage (V)

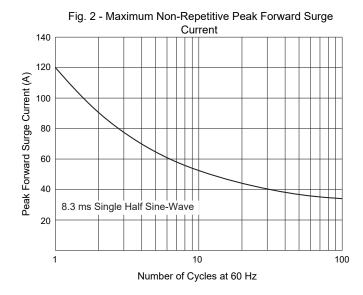
0.6

8.0

Fig. 3 - Typical Forward Characteristics

Fig. 5 - Typical Capacitance Characteristics 6000 T_J=25°C f=1MHz 5000 Junction Capacitance (pF) 4000 3000 2000 1000 0 0 10 30 40 50 60

Reverse Voltage (V)



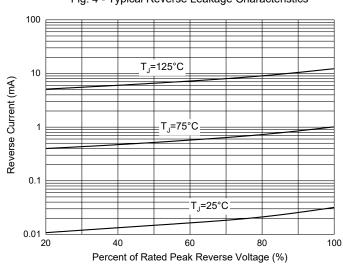


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel:5Kpcs/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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Micro Commercial Components (MCC): SL56BFL-TP