

Features

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

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value			
Parameter		SL14A	SL16A	SL110A	Unit
Peak Repetitive Reverse Voltage	V_{RRM}				
Working Peak Reverse Voltage	V _{RWM}	40	60	100	٧
DC Blocking Voltage	V _R				
RMS Reverse Voltage	V _{RMS}	28	42	70	٧
Average Rectified Forward Current	I _{F(AV)}	1		Α	
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	28			Α
Current Squared Time @1ms≤t≤8.3ms	l ² t	3.25		A ² s	

Marking code

Part Number	Marking Code
SL14A	SL14A
SL16A	SL16A
SL110A	SL110A

Internal Structure

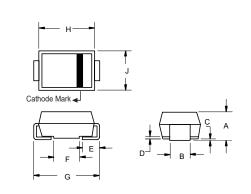
Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode	1 MCC 2	
2	Anode	XXXX = Marking Code	1 0 € 2

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

2. High temperature solder exemption applied, see EU directive annex 7a.

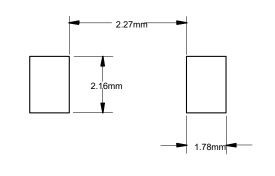
1 Amp Low VF GW cHh_m FYWJZYf 40 to 100 Volts

SMA (DO-214AC)



	DIMENSIONS						
DIM	INC	HES	MM		NOTE		
Dilvi	MIN	MAX	MIN	MAX	INOTE		
Α	0.075	0.096	1.90	2.44			
В	0.050	0.064	1.27	1.63			
С	0.002	0.008	0.051	0.203			
D		0.020		0.51			
Е	0.030	0.060	0.76	1.52			
F	0.065	0.091	1.65	2.32			
G	0.189	0.220	4.80	5.59			
Н	0.157	0.187	4.00	4.75			
J	0.090	0.115	2.25	2.92			

SUGGESTED SOLDER PAD LAYOUT





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T_J	Operating Junction Temperature Range		-55		150	Ĵ
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		23		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		80		°C/W

Note:

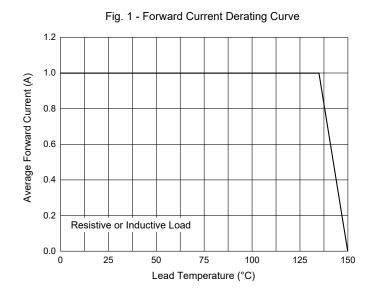
Electrical Characteristics @ 25°C Unless Otherwise Specified

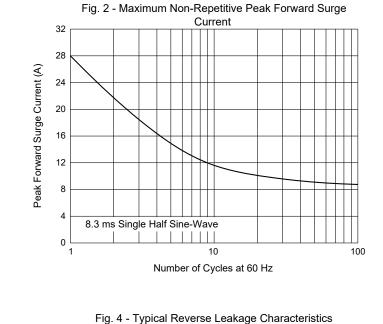
Parameter		Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	SL14A SL16A SL110A	V _F	I _F =1A;T _J =25°C			0.40 0.55 0.60	V
Reverse Current		I _R	at Rated V_R ; T_J =25°C at Rated V_R ; T_J =125°C			0.1 20	mA
Junction Capacitance	SL14A SL16A SL110A	CJ	V _R =4V;f=1MHz;T _J =25°C		275 45 60		pF

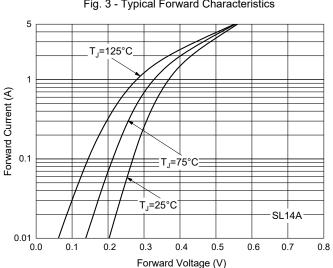
^{1.}Mounted on P.C.B. with 5mm*5mm copper pad areas.

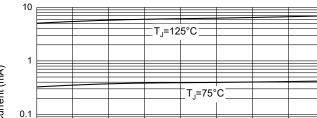


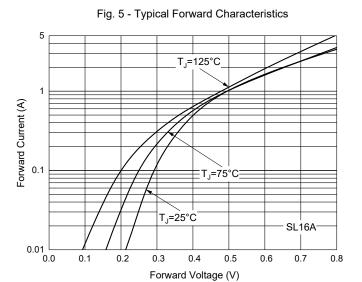
Curve Characteristics













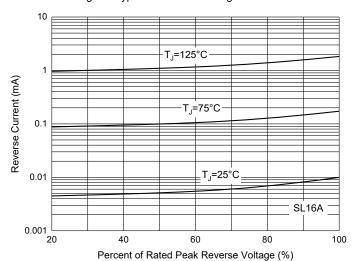
60

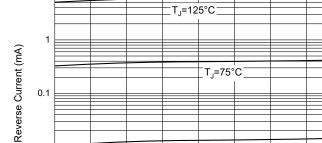
Percent of Rated Peak Reverse Voltage (%)

T₁=25°C

SL14A

100





40

0.01

0.001

20



Curve Characteristics

Fig. 7 - Typical Forward Characteristics

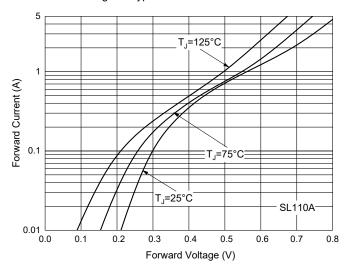
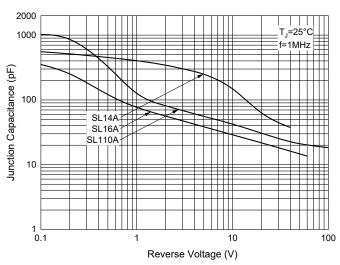


Fig. 8 - Typical Reverse Leakage Characteristics

10

Fig. 9 - Typical Capacitance 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):

SL110A-TP SL14A-TP SL16A-TP SL110A-TP-HF