

## Features

- Low Forward Voltage Drop and Low Power Losses
- For Surface Mount Applications
- 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)

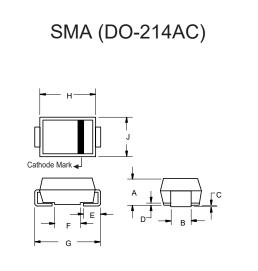
Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>		
Working Peak Reverse Voltage	$V_{RWM}$	60	V
DC Blocking Voltage	V <sub>R</sub>		
RMS Reverse Voltage	$V_{\text{RMS}}$	42	V
Average Rectified Forward Current @ $T_L$ =85°C	I <sub>F(AV)</sub>	5	А
Non-Repetitive Peak Surge Current @8.3ms Half Sine Wave	I <sub>FSM</sub>	100	A
Current Squared Time @ 1ms≤t≤8.3ms	l²t	41.5	A <sup>2</sup> s

## Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode	л П мсс П 2	
2	Anode		1 oo 2

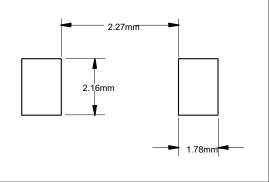
#### Note:

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



	DIMENSIONS					
DIM INCHES		MM		NOTE		
DIN	MIN	MAX	MIN	MAX	NOTE	
Α	0.079	0.096	2.00	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		
E	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	0.181	4.00	4.60		
J	0.090	0.115	2.25	2.92		

#### SUGGESTED SOLDER PAD LAYOUT





Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range		-55		150	°C
T <sub>stg</sub>	Storage Temperature Range		-55		150	°C
Rth <sub>(J-L)</sub>	Thermal Resistance from Junction to Lead	Note 1		25		°C/W
Rth <sub>(J-A)</sub>	Thermal Resistance from Junction to Ambient	Note 1		85		°C/W

Note:

1.Mounted on P.C.B. with 8mm\*8mm copper pad areas.

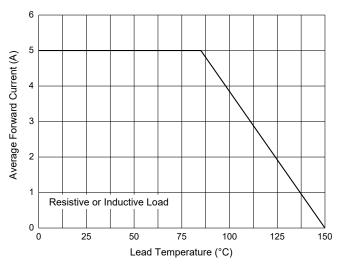
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =1A;T <sub>J</sub> =25°C I <sub>F</sub> =5A;T <sub>J</sub> =25°C I <sub>F</sub> =1A;T <sub>J</sub> =125°C I <sub>F</sub> =5A;T <sub>J</sub> =125°C		0.40 0.52 0.29 0.47	0.55 0.50	V
Reverse Current	I <sub>R</sub>	at Rated V <sub>R</sub> ;T <sub>J</sub> =25°C at Rated V <sub>R</sub> ;T <sub>J</sub> =125°C			0.1 30	mA
Junction Capacitance	CJ	V <sub>R</sub> =4V;f=1MHz;T <sub>J</sub> =25°C		0.5		nF



## **Curve Characteristics**







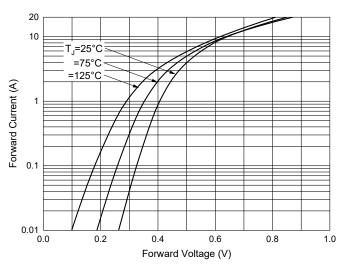
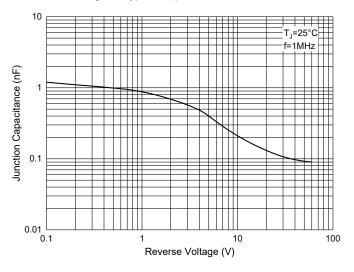
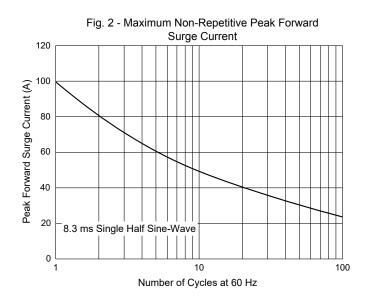
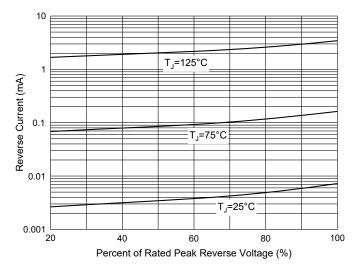


Fig. 5 - Typical Capacitance Characteristics











## **Ordering Information**

Device	Packing		
SL56A-TP	Tape&Reel:5Kpcs/Reel		

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