

3A, 60V Trench Schottky Rectifier

FEATURES

- Patented Trench Schottky technology
- Low power loss, high efficiency
- Ideal for automated placement
- High surge current capability
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition

MECHANICAL DATA

Case: DO-214AC (SMA)

Molding compound, UL flammability classification rating 94V-0

- Moisture sensitivity level: level 1, per J-STD-020

Packing code with suffix "G" means green compound (halogen-free)

Terminal: Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test

Polarity: Indicated by cathode band

Weight: 0.06g (approximately)







DO-214AC (SMA)

PARAMETER	SYMBOL	TSSA3U60		UNIT	
Marking code		A3U60			
Maximum repetitive peak reverse voltage		V _{RRM}	60		V
Maximum average forward rectified current		I _{F(AV)}	3		Α
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load		I _{FSM}	60		А
			TYP.	MAX.	
Maximum instantaneous forward voltage $I_{\rm F} = 3$	$T_J = 25^{\circ}C$	V _F	0.48	0.54	V
(Note 1)	T _J = 125°C	V _F	0.41	0.50	
Maximum instantaneous reverse current	T _J = 25°C		-	500	μA
at rated reverse voltage	T _J = 125°C	I _R	12	30	mA
Typical thermal resistance		R _{eJL}	27		°C/W
		R _{eJA}	70		
Operating temperature range		TJ	- 55 to +150		°C
Storage temperature range		T _{STG}	- 55 to +150		°C

Note 1: Pulse Test with Pulse Width=300µs, 1% Duty Cycle



TSSA3U60

Taiwan Semiconductor

ORDERING INFORMATION					
PART NO.	PACKING CODE	PACKING CODE	PACKAGE	PACKING	
		SUFFIX			
TSSA3U60	E3	G	Clip SMA	1,800 / 7" Plastic reel	
133A3000	E2		Clip SMA	7,500 / 13" Plastic reel	

EXAMPLE					
PREFERRED PART NO.	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION	
TSSA3U60 E3G	TSSA3U60	E3	G	Green compound	

RATINGS AND CHATACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

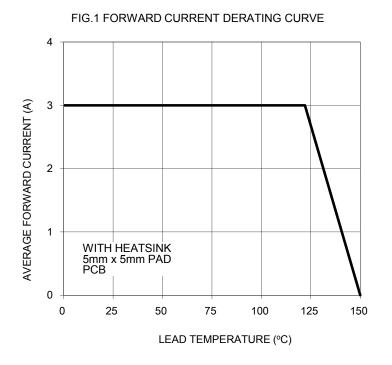


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

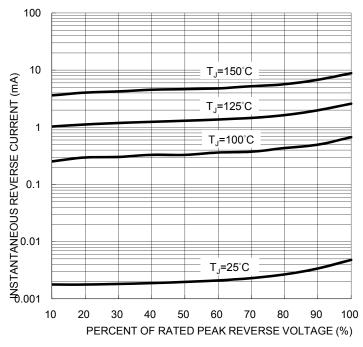
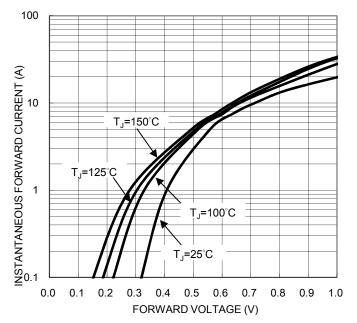
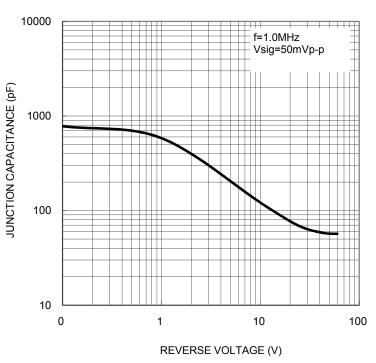


FIG. 2 TYPICAL FORWARD CHARACTERISTICS







Document Number: DS_D1411075



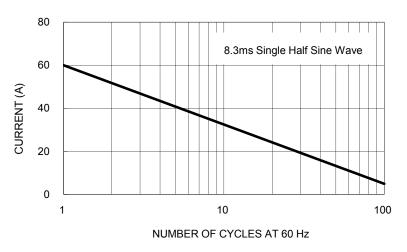
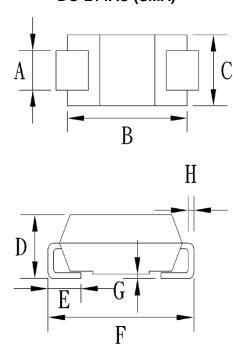


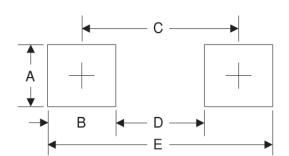
FIG. 5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

PACKAGE OUTLINE DIMENSIONS DO-214AC (SMA)



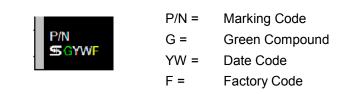
Dim.	Unit(mm)		Unit(inch)		
	Min	Max	Min	Max	
А	1.27	1.58	0.05	0.062	
В	4.06	4.6	0.16	0.181	
С	2.29	2.84	0.09	0.111	
D	1.99	2.5	0.078	0.098	
E	0.9	1.41	0.035	0.056	
F	4.95	5.33	0.195	0.21	
G	0.1	0.2	0.004	0.008	
Н	0.15	0.31	0.006	0.012	

SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
A	1.68	0.066
В	1.52	0.060
С	3.93	0.155
D	2.41	0.095
E	5.45	0.215

MARKING DIAGRAM



Document Number: DS_D1411075



Notice

Specifications of the products displayed herein are subject to change without notice. TSC or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, to any intellectual property rights is granted by this document. Except as provided in TSC's terms and conditions of sale for such products, TSC assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of TSC products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify TSC for any damages resulting from such improper use or sale.

Document Number: DS_D1411075

Downloaded from Arrow.com