

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 $I_F = 3$	T _J = 25°C	V _F	0.48	0.54	V
(Note 1) $I_F = 3$	T _J = 125°C	V _F	0.41	0.50	v
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 _{θJA}	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



Taiwan Semiconductor

ORDERING INFORMATION					
PART NO.	PACKING CODE	PACKING CODE	PACKAGE	PACKING	
		SUFFIX			
TSSA3U60	E3	G -	Clip SMA	1,800 / 7" Plastic reel	
13343000	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

100

RATINGS AND CHATACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

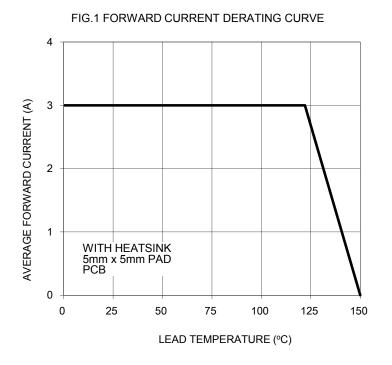
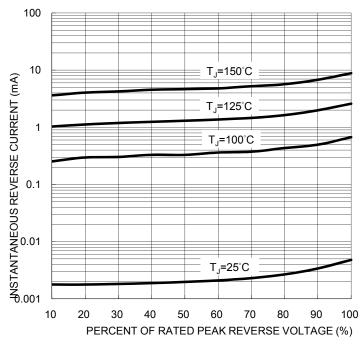
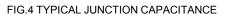


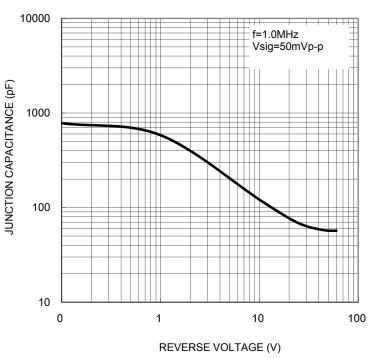
FIG. 3 TYPICAL REVERSE CHARACTERISTICS



 $(F)_{\text{HYNOUTONUCLAGE}}(F)_{\text{HYNOUTONUCLAG$

FIG. 2 TYPICAL FORWARD CHARACTERISTICS





Document Number: DS_D1411075



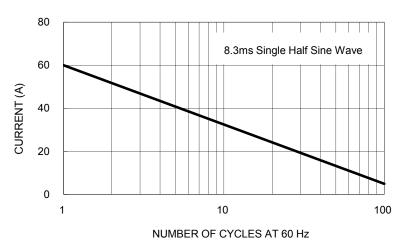
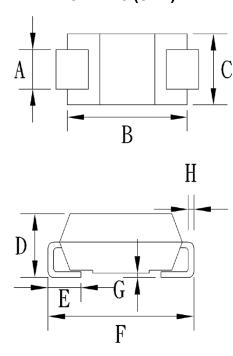


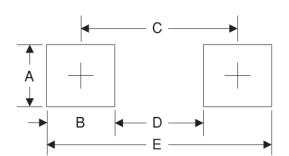
FIG. 5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

PACKAGE OUTLINE DIMENSIONS DO-214AC (SMA)



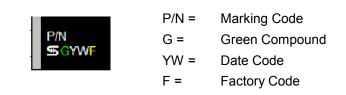
Dim.	Unit(mm)		Unit(inch)		
	Min	Max	Min	Max	
А	1.27	1.58	0.05	0.062	
В	4.06	4.6	0.16	0.181	
С	2.29	2.84	0.09	0.111	
D	1.99	2.5	0.078	0.098	
E	0.9	1.41	0.035	0.056	
F	4.95	5.33	0.195	0.21	
G	0.1	0.2	0.004	0.008	
Н	0.15	0.31	0.006	0.012	

SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
А	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





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