imall

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2A, 20V - 150V Surface Mount Schottky Barrier Rectifiers

FEATURES

- Low power loss, high efficiency
- Ideal for automated placement
- Guardring for overvoltage protection
- 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: Sub SMA

Molding compound, UL flammability classification rating 94V-0 Moisture sensitivity level: level 1, per J-STD-020 Part no. with suffix "H" means AEC-Q101 qualified 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:** 0.019 g (approximately)







Sub SMA

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)										
PARAMETER	SYMBOL	SS	SS	SS	SS	SS	SS	SS	SS	UNIT
		22L	23L	24L	25L	26L	29L	210L	215L	
Marking code		22L	23L	24L	25L	26L	29L	20L	2AL	
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	90	100	150	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	63	70	105	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	90	100	150	V
Maximum average forward rectified current	I _{F(AV)}					2				Α
Peak forward surge current, 8.3 ms single half sine-wa superimposed on rated load	ve I _{FSM}				5	0				A
Maximum instantaneous forward voltage (Note 1) @ 2A	V _F		0.50		0.	70	0.	85	0.95	V
T _J =25°C				0.4				0.1		
Maximum reverse current @ rated V _R T _J =100°C	I _R		15		1	0		-		mA
T _J =125°C			-			-	5			1
Voltage rate of change (Rated V_R)	dV/dt				100	000				V/µs
Typical thermal resistance	R _{θJL} R _{θJA}					7 5				°C/W
Operating junction temperature range	TJ	- 55 to +125 - 55 to +150				°C				
Storage temperature range	T _{STG}	- 55 to +150					°C			
Note 1: Dulas test with DM-200us, 1% duty such	<u>.</u>	•								•

Note 1: Pulse test with PW=300µs, 1% duty cycle



Taiwan Semiconductor

ORDERING INFORMATION					
PART NO.	PART NO.	PACKING	PACKING CODE	PACKAGE	PACKING
	SUFFIX	CODE	SUFFIX		
		RU		Sub SMA	1,800 / 7" Plastic reel (8mm tape)
		RV		Sub SMA	3,000 / 7" Plastic reel (8mm tape)
		RT		Sub SMA	7,500 / 13" Paper reel (8mm tape)
		MT		Sub SMA	7,500 / 13" Plastic reel (8mm tape)
SS2XL (Note 1) H	RQ	G	Sub SMA	10,000 / 13" Paper reel (8mm tape)	
	MQ		Sub SMA	10,000 / 13" Plastic reel (8mm tape)	
	п	R3	G	Sub SMA	1,800 / 7" Plastic reel (12mm tape)
		RF		Sub SMA	3,000 / 7" Plastic reel (12mm tape)
		R2		Sub SMA	7,500 / 13" Paper reel (12mm tape)
		M2		Sub SMA	7,500 / 13" Plastic reel (12mm tape)
		RH		Sub SMA	10,000 / 13" Paper reel (12mm tape)
		MH		Sub SMA	10,000 / 13" Plastic reel (12mm tape)

Note 1: "x" defines voltage from 20V (SS22L) to 150V (SS215L)

EXAMPLE					
PREFERRED PART NO.	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
SS26LHRUG	SS26L	Н	RU	G	AEC-Q101 qualified Green compound

RATINGS AND CHARACTERISTICS CURVES (T_A=25°C unless otherwise noted)

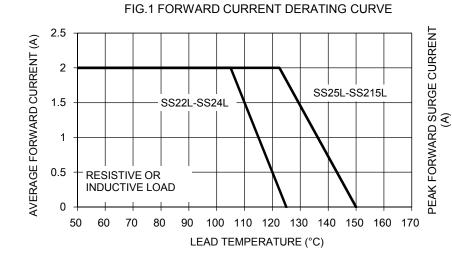
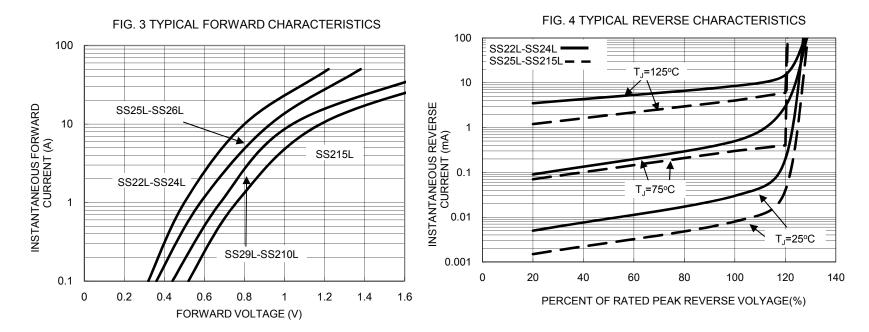


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD



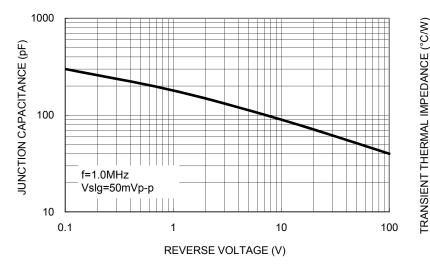


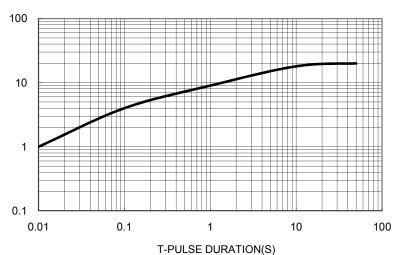
Document Number: DS_D1409054



FIG. 5 TYPICAL JUNCTION CAPACITANCE

FIG. 6 TYPICAL TRANSIENT THERMAL IMPEDANCE

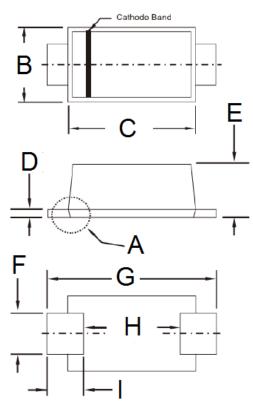




DIM.	Unit	(mm)	Unit (inch)		
Dilvi.	Min	Max	Min	Max	
В	1.70	1.90	0.067	0.075	
С	2.70	2.90	0.106	0.114	
D	0.16	0.30	0.006	0.012	
Е	1.23	1.43	0.048	0.056	
F	0.80	1.20	0.031	0.047	
G	3.40	3.80	0.134	0.150	
Н	2.45	2.60	0.096	0.102	
Ι	0.35	0.85	0.014	0.033	
J	0.00	0.10	0.000	0.004	



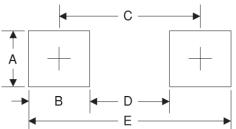
Sub SMA





DETAIL "A", SCALE=20/1

SUGGESTED PAD LAYOUT



P/N G

YW

F



MARKING DIAGRAM

= Marking Code

= Green Compound

= Date Code

= Factory Code

Document Number: DS_D1409054

Symbol	Unit (mm)	Unit (inch)
А	1.4	0.055
В	1.2	0.047
С	3.1	0.122
D	1.9	0.075
E	4.3	0.169



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