



Schottky Barrier Rectifier

FEATURES

- Low power loss, high efficiency
- 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: TO-220AC

Molding compound, UL flammability classification rating 94V-0 Base P/N with suffix "G" on packing code - halogen-free Base P/N with prefix "H" on packing code - AEC-Q101 qualified **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test,

with prefix "H" on packing code meet JESD 201 class 2 whisker test

Polarity: As marked

Mounting torque: 5 in-lbs maximum **Weight:** 1.9g (approximately)



PIN 10-

PIN 2 O-

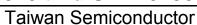




MAXIMUM RATINGS AND ELECTRICAL CHAR	ACTERIS	TICS (T	=25°C ।	unless o	therwise	noted)					
PARAMETER	SYMBOL	SRA	SRA	SRA	SRA	SRA	SRA	SRA	SRA	UNIT	
PARAIVIETER		2020	2030	2040	2050	2060	2090	20100	20150		
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	90	100	150	V	
Maximum RMS voltage	V_{RMS}	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)}	20					Α				
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	300					А				
Maximum instantaneous forward voltage (Note 2) I_F = 20 A	V _F	0.55 0.70		0.	92	1.02	V				
Maximum reverse current @ rated VR T₁=25 ℃		0.5 0.1									
T _J =100 ℃	I _R	15		10		-			mA		
Tյ=125℃				-	-			5.0			
Typical thermal resistance	$R_{ heta JC}$	1.5			°C/W						
Operating junction temperature range	T_J	- 55 to +125 - 55 to +150			οС						
Operating junction temperature range - In DC forward mode	T _J	≦200			οС						
Storage temperature range	T _{STG}	- 55 to +150				οС					

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

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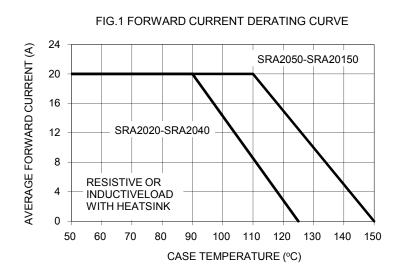
ORDERING INFORMATION						
PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING	
SRA20xx (Note 1)	Prefix "H"	C0	Suffix "G"	TO-220AC	50 / Tube	

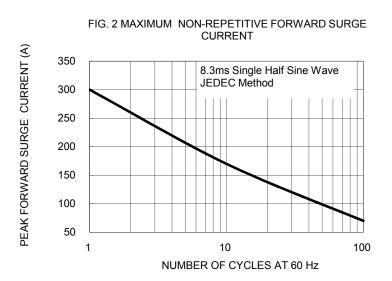
Note 1: "xx" defines voltage from 20V (SRA2020) to 150V (SRA20150)

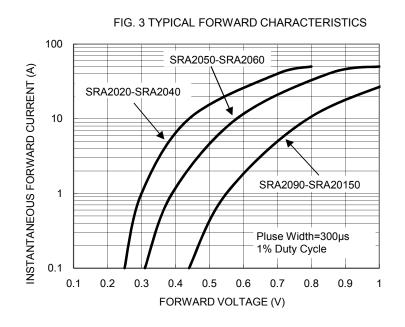
EXAMPLE							
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION		
SRA2060 C0	SRA2060		C0				
SRA2060 C0G	SRA2060		C0	G	Green compound		
SRA2060HC0	SRA2060	Н	C0		AEC-Q101 qualified		

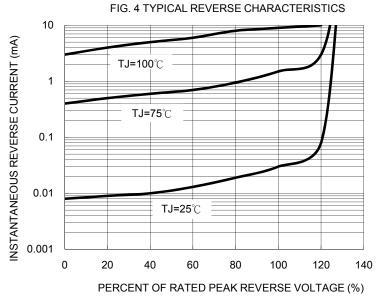
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)











Taiwan Semiconductor

FIG. 5 TYPICAL JUNCTION CAPACITANCE

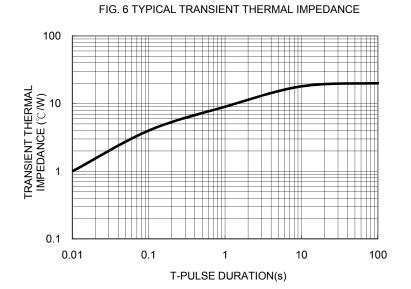
10000

(b) 1000

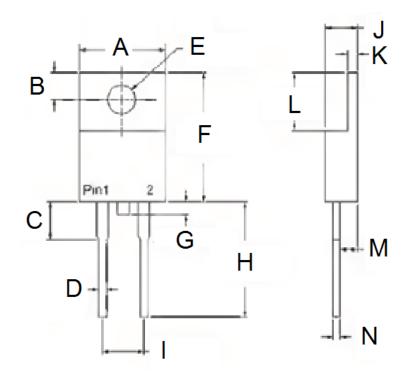
100

0.1 1 10 100

REVERSE VOLTAGE (V)



PACKAGE OUTLINE DIMENSIONS



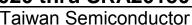
DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min	Max	Min	Max	
Α	-	10.50	-	0.413	
В	2.62	3.44	0.103	0.135	
С	2.80	4.20	0.110	0.165	
D	0.68	0.94	0.027	0.037	
E	3.54	4.00	0.139	0.157	
F	14.60	16.00	0.575	0.630	
G	0.00	1.60	0.000	0.063	
Н	13.19	14.79	0.519	0.582	
ļ	4.95	5.20	0.195	0.205	
J	4.42	4.76	0.174	0.187	
K	1.14	1.40	0.045	0.055	
L	5.84	6.86	0.230	0.270	
М	2.20	2.80	0.087	0.110	
N	0.35	0.64	0.014	0.025	

MARKING DIAGRAM



P/N = Marking Code G = Green Compound

YWW = Date Code F = Factory Code





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