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We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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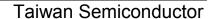
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Schottky Barrier Rectifier

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:** 1.85 g (approximately)







PIN 1 O-	
PIN 2 O	CASE

TO-220AC

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)										
PARAMETER	SYMBOL	SRA	SRA	SRA	SRA	SRA	SRA	SRA	SRA	UNIT
PANAMETEN		820	830	840	850	860	890	8100	8150	
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)}	8								Α
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150				А				
Maximum instantaneous forward voltage (Note 1) @ 8A	V _F		0.55		0.70 0.85 0.95		0.95	V		
Maximum reverse current @ Rated VR T₁=25 °C		0.5								
T _J =100 °C	I _R	15		10		-		mA		
T _J =125℃		- 5								
Voltage rate of change (Rated V _R)	dV/dt	10000			V/µs					
Typical thermal resistance	$R_{ heta JC}$	4			°C/W					
Operating junction temperature range	TJ	- 55 to +125 - 55 to +150			οС					
Storage temperature range	T _{STG}	- 55 to +150 °C			οС					

Note 1: tp = 2.0 μs, 1.0KHz

Note 2: Pulse test with PW=300µs, 1% duty cycle





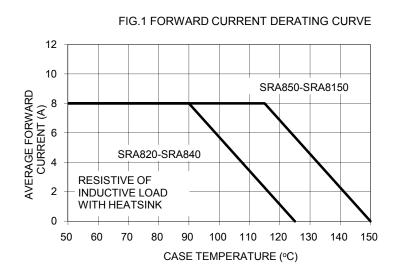
ORDERING INFORMATION							
PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING		
SRA8xx (Note 1)	Prefix "H"	C0	Suffix "G"	TO-220AC	50 / Tube		

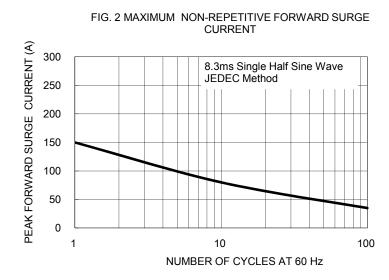
Note 1: "xx" defines voltage from 20V (SRA820) to 150V (SRA8150)

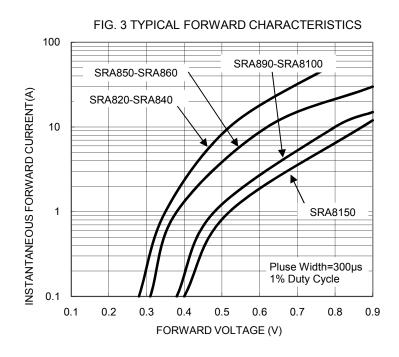
EXAMPLE									
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION				
SRA860 C0	SRA860		C0						
SRA860 C0G	SRA860		C0	G	Green compound				
SRA860HC0	SRA860	Н	C0		AEC-Q101 qualified				

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)







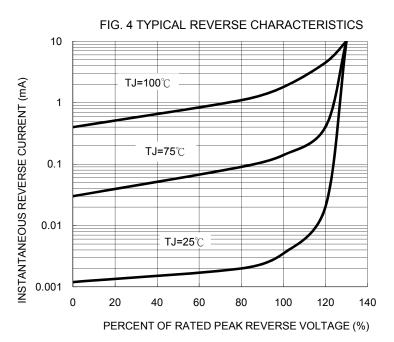




FIG. 5 TYPICAL JUNCTION CAPACITANCE

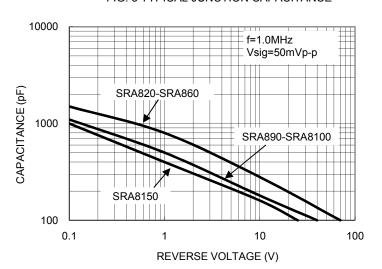
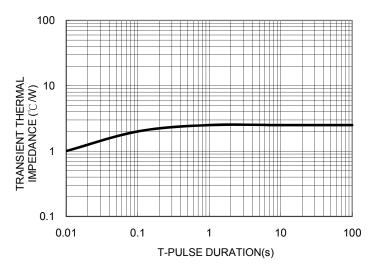
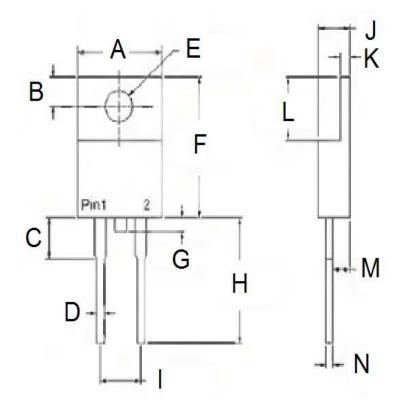


FIG. 6 TYPICAL TRANSIENT THERMAL IMPEDANCE



PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)			
Dilvi.	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		
Е	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		
I	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

= Factory Code





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