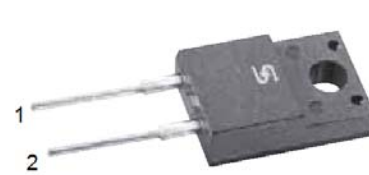


- High surge current capability
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition



## MECHANICAL DATA

**Case :** ITO-220AC

Molding compound, UL flammability classification rating 94V-0  
 Base P/N with suffix "G" on packing code - halogen-free, RoHS compliant  
 Base P/N with prefix "H" on packing code - AEC-Q101 qualified

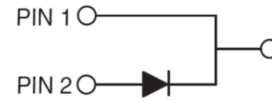
**Terminal :** Matte tin plated leads, solderable per JESD 22-B102  
 Meet JESD 201 class 1A whisker test,  
 with prefix "H" on packing code meet JESD 201 class 2 whisker test

**Polarity :** As marked

**Mounting torque :** 5 in-lbs maximum

**Weight :** 1.7 gram (approximately)

## ITO-220AC



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	SRAF 1020	SRAF 1030	SRAF 1040	SRAF 1050	SRAF 1060	SRAF 1090	SRAF 1010	
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	20	30	40	50	60	90	100	
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	35	42	63	70	
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	40	50	60	90	100	
Maximum average forward rectified current	I <sub>F(AV)</sub>	10							
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	200							
Maximum instantaneous forward voltage (Note 1) IF= 10 A	V <sub>F</sub>	0.55		0.70		0.85			
Maximum reverse current @ Rated V <sub>R</sub> T <sub>J</sub> =25 °C T <sub>J</sub> =100 °C T <sub>J</sub> =125 °C	I <sub>R</sub>	0.5					0		
		15		10		-			
		-					5		
Voltage rate of change (Rated V <sub>R</sub> )	dV/dt	10000							
Typical thermal resistance	R <sub>θJC</sub>	4							
Operating junction temperature range	T <sub>J</sub>	- 55 to + 125				- 55 to + 150			
Storage temperature range	T <sub>STG</sub>	- 55 to + 150							

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

Document Number : DS\_D1309009

Note 1: "xx" defines voltage from 20V (SRAF1020) to 150V (SRAF10150)

EXAMPLE

PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DE
SRAF1060 C0	SRAF1060		C0		
SRAF1060 C0G	SRAF1060		C0	G	Green
SRAF1060HC0	SRAF1060	H	C0		AEC-Q

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

FIG. 1- FORWARD CURRENT DERATING CURVE

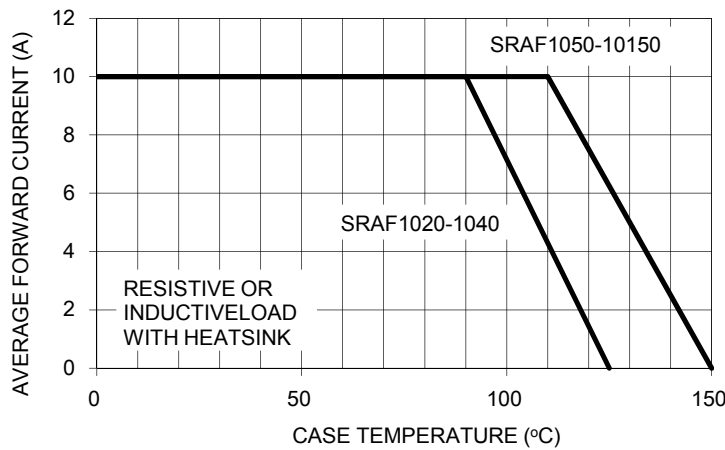


FIG. 2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

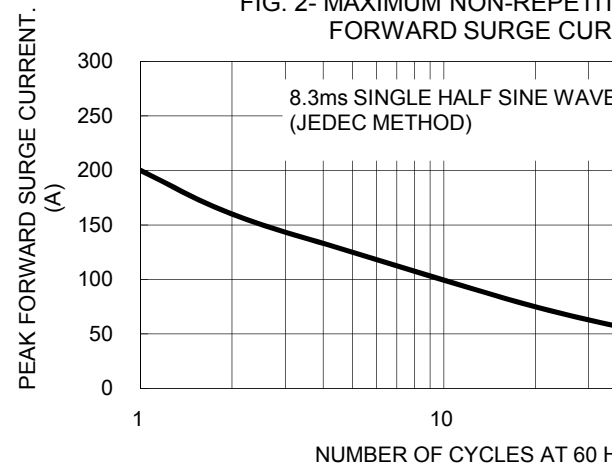


FIG. 3- TYPICAL FORWARD CHARACTERISTICS

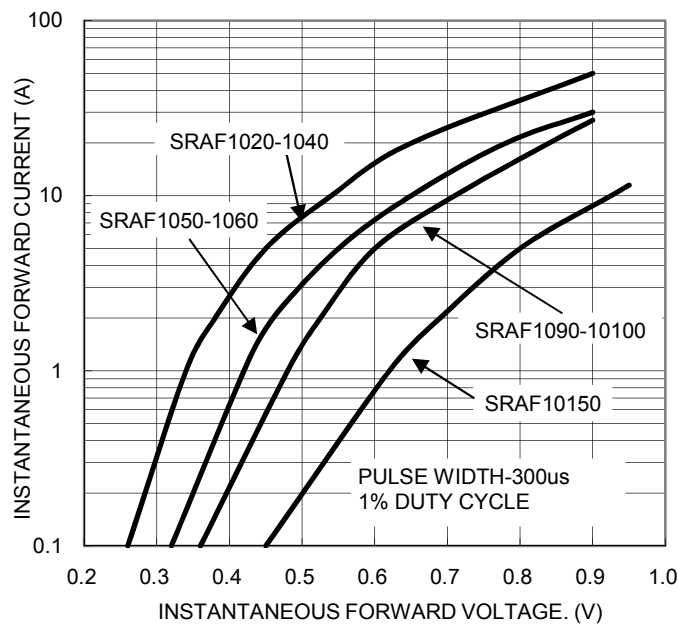
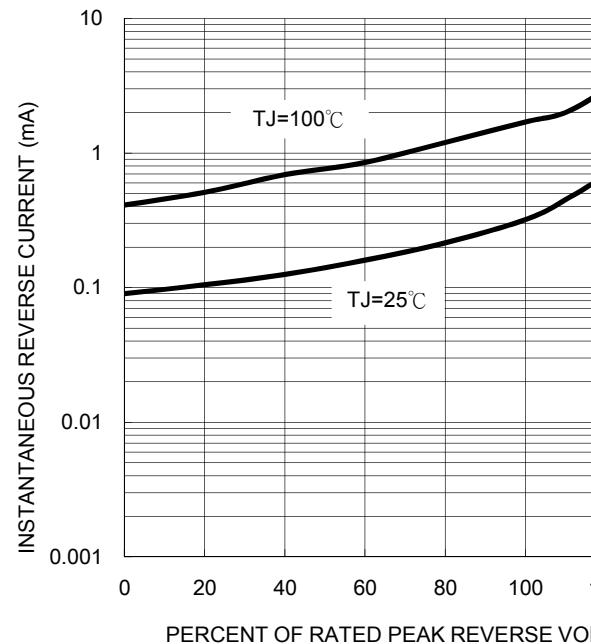
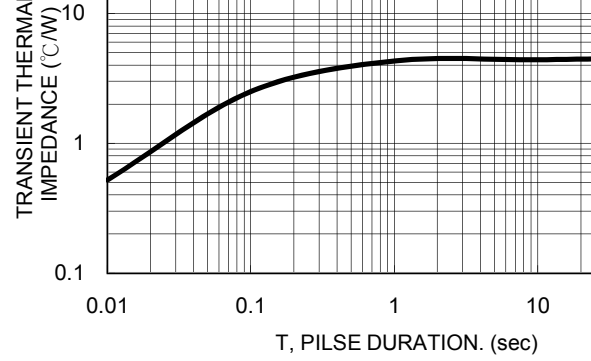
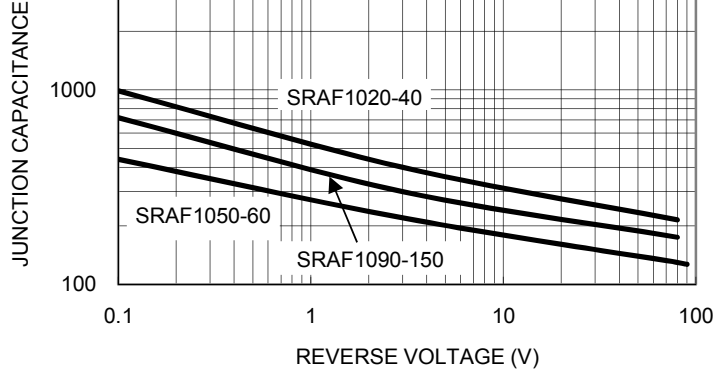
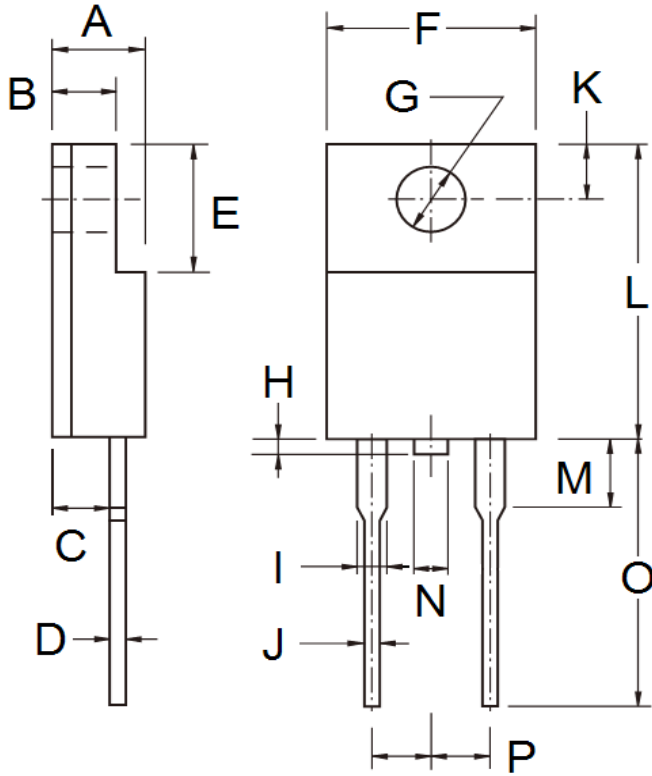


FIG. 4- TYPICAL REVERSE CHARACTERISTICS



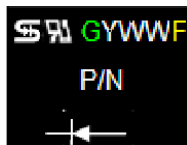


PACKAGE OUTLINE DIMENSIONS



DIM.	Unit(mm)		Unit(inch)	
	Min	Max	Min	Max
A	4.30	4.70	0.169	0.185
B	2.50	3.10	0.098	0.122
C	2.30	2.90	0.091	0.114
D	0.46	0.76	0.018	0.030
E	6.30	6.90	0.248	0.272
F	9.60	10.30	0.378	0.406
G	3.00	3.40	0.118	0.134
H	0.00	1.60	0.000	0.063
I	0.95	1.45	0.037	0.057
J	0.50	0.90	0.020	0.035
K	2.40	3.20	0.094	0.126
L	14.80	15.50	0.583	0.610
M	-	4.10	-	0.161
N	-	1.80	-	0.071
O	12.60	13.80	0.496	0.543
P	4.95	5.20	0.195	0.205

MARKING DIAGRAM



- P/N = Specific Device Code
- G = Green Compound
- YWW = Date Code
- F = Factory Code