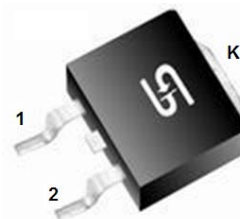


- Guardring for over-voltage protection
- High surge current capability
- Moisture sensitivity level: level 1, per J-STD-020
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition



MECHANICAL DATA

Case : TO-263AB(D²PAK)

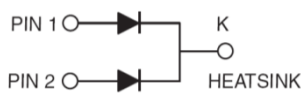
Molding compound, UL flammability classification rating 94V-0
 Base P/N with suffix "G" on packing code - halogen-free, RoHS compliant
 Base P/N with prefix "H" on packing code - AEC-Q101 qualified

Terminal : Matte tin plated leads, solderable per 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

Weight : 1.37 gram (approximately)

TO-263AB(D²PAK)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)							
PARAMETER	SYMBOL	SRS 1020	SRS 1030	SRS 1040	SRS 1050	SRS 1060	SRS 1090
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	90
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	63
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	90
Maximum average forward rectified current	I _{F(AV)}	10					
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	120					
Maximum instantaneous forward voltage (Note 1) IF= 5 A	V _F	0.55		0.70		0.85	
Maximum reverse current @ rated VR T _J =25 °C T _J =100 °C T _J =125 °C	I _R	0.5					
		15		10			
		-					
Typical thermal resistance	R _{θJC}	2					
Operating junction temperature range	T _J	- 55 to + 125			- 55 to + 150		
Storage temperature range	T _{STG}	- 55 to + 150					

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

EXAMPLE

PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DE
SRS1060 RN	SRS1060		RN		
SRS1060 RNG	SRS1060		RN	G	Gr
SRS1060HRN	SRS1060	H	RN		AEC

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

FIG.1 FORWARD CURRENT DERATING CURVE

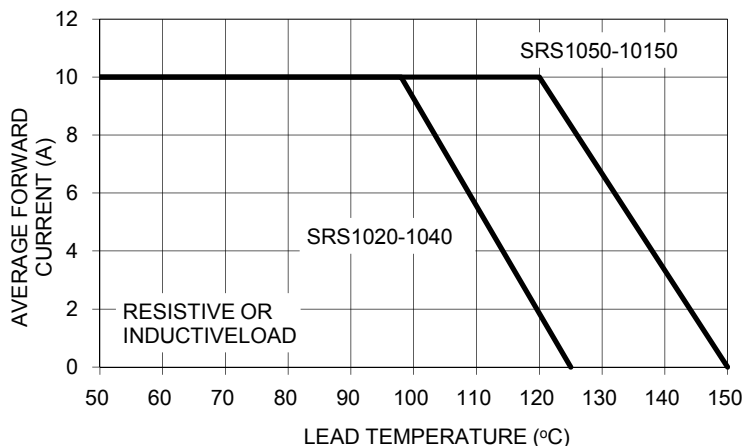


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

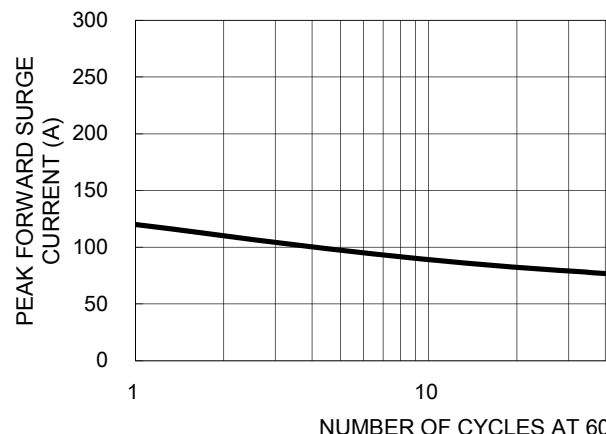


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

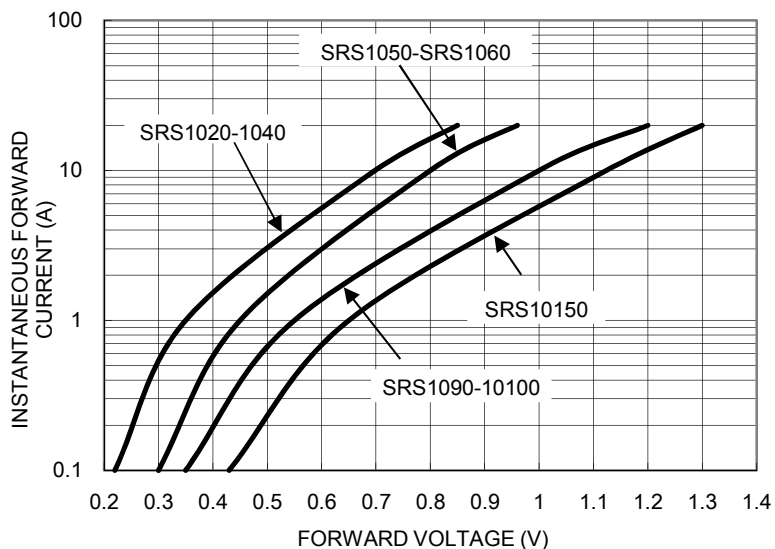
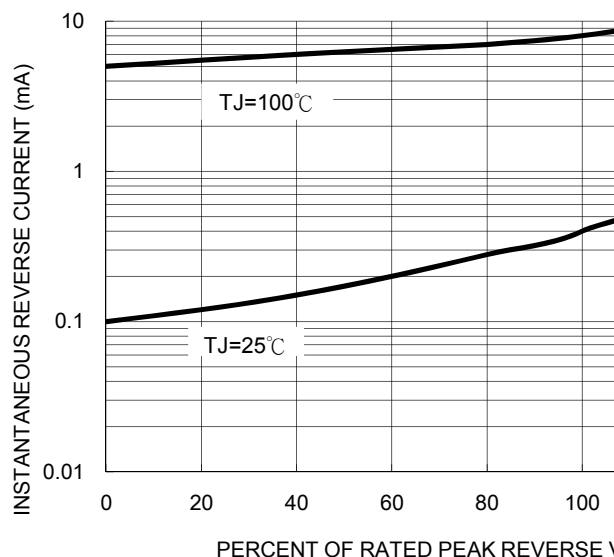
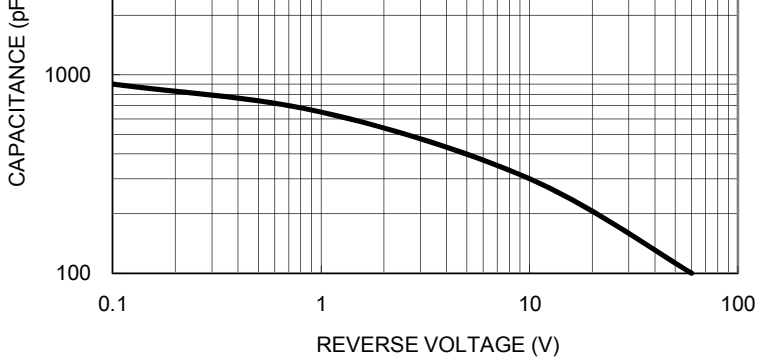
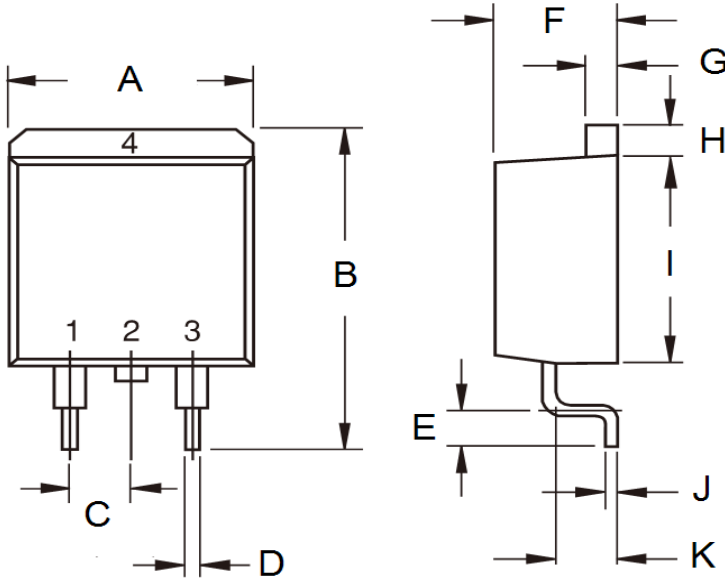


FIG. 4 TYPICAL REVERSE CHARACTERISTICS



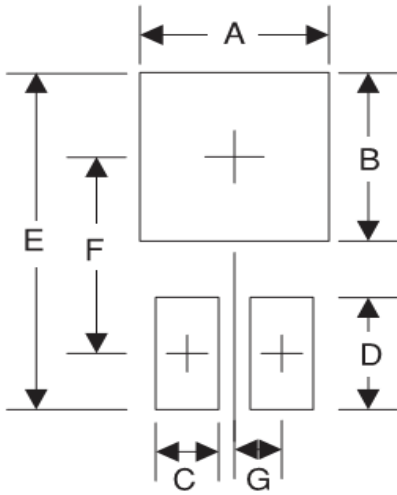


PACKAGE OUTLINE DIMENSIONS



DIM.	Unit(mm)		Unit(in)
	Min	Max	Min
A	-	10.5	-
B	14.60	15.88	0.575
C	2.41	2.67	0.095
D	0.68	0.94	0.027
E	2.29	2.79	0.090
F	4.44	4.70	0.175
G	1.14	1.40	0.045
H	1.14	1.40	0.045
I	8.25	9.25	0.325
J	0.36	0.53	0.014
K	2.03	2.79	0.080

SUGGESTED PAD LAYOUT



Symbol	Unit(mm)
A	10.8
B	8.3
C	1.1
D	3.5
E	16.9
F	9.5
G	2.5

MARKING DIAGRAM



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

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