

- 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 : DO-201AD

DO-201AD

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

Weight : 1.1 gram (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)								
PARAMETER	SYMBOL	SR 802	SR 803	SR 804	SR 805	SR 806	SR 809	SR 810
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	90	100
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	63	70
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	90	100
Maximum average forward rectified current	I _{F(AV)}	8						
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150						
Maximum instantaneous forward voltage (Note 1) @ 8 A	V _F	0.55		0.70		0.92		
Maximum reverse current @ rated V _R T _A =25 °C T _A =100°C T _A =125 °C	I _R	0.5					0.1	
		15		10		-		
		-		-		5		
Voltage rate of change (Rated V _R)	dV/dt	10000						
Typical thermal resistance	R _{θJA}	40						
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

Document Number : D1308009

(Note 1)		B0	DO-201AD	500 / Bulk packing
		X0		
			DO-201AD	Forming

Note 1: "xx" defines voltage from 20V (SR802) to 150V (SR815)

EXAMPLE

PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND	DESC
SR806 A0	SR806		A0		
SR806 A0G	SR806		A0	G	Green com
SR806HA0	SR806	H	A0		AEC-Q101

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

FIG. 1- MAXIMUM FORWARD CURRENT DERATING CURVE

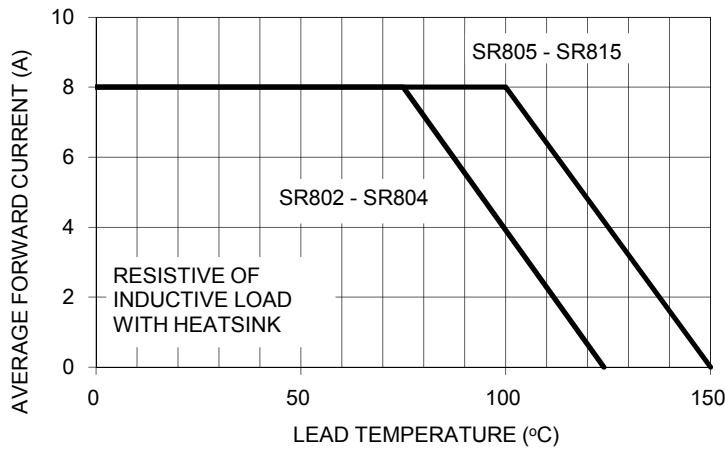


FIG. 2- MAXIMUM NON-REPETITIVE F SURGE CURRENT

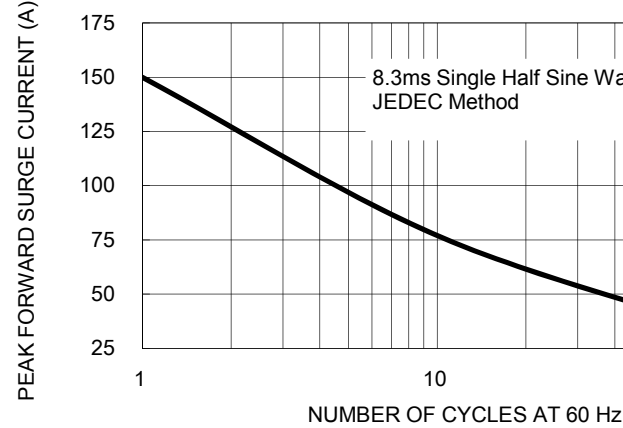


FIG. 3- TYPICAL FORWARD CHARACTERISTICS

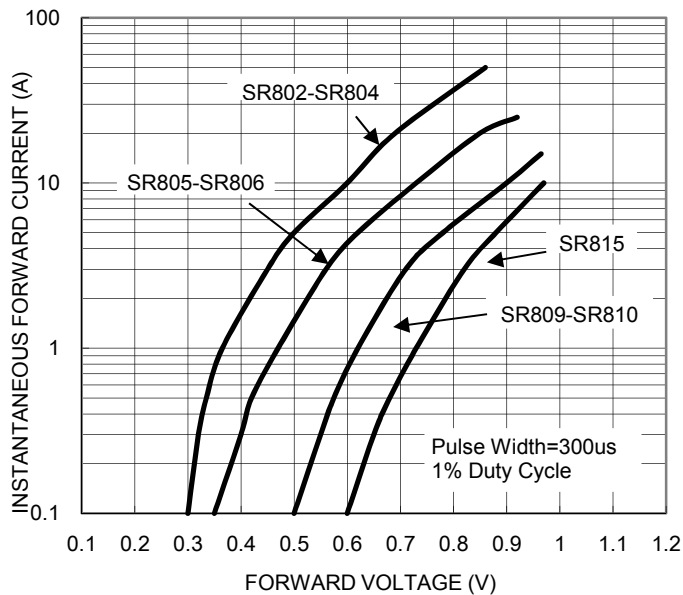
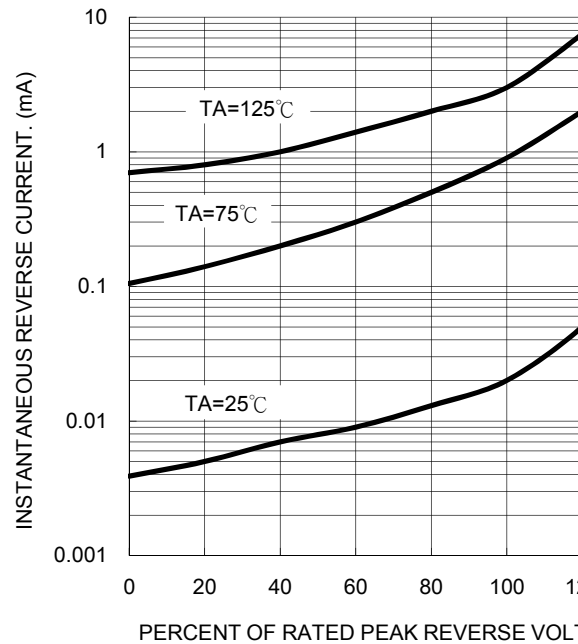
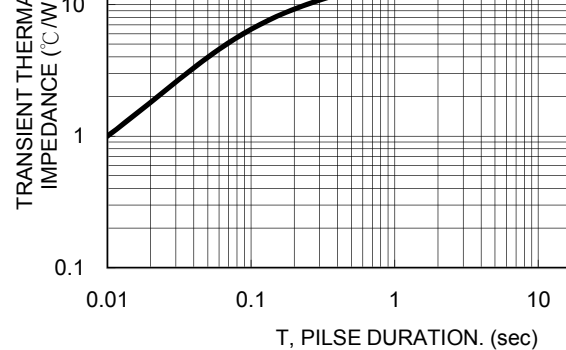
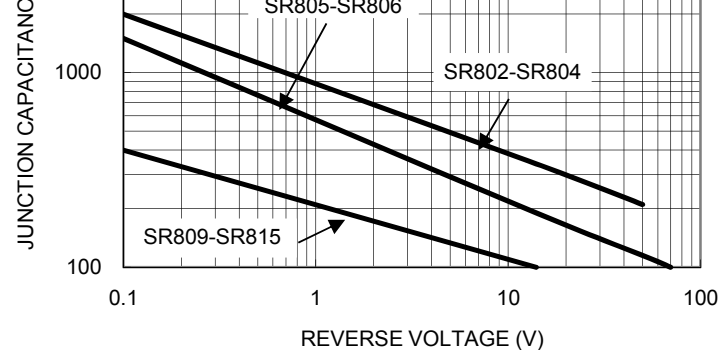
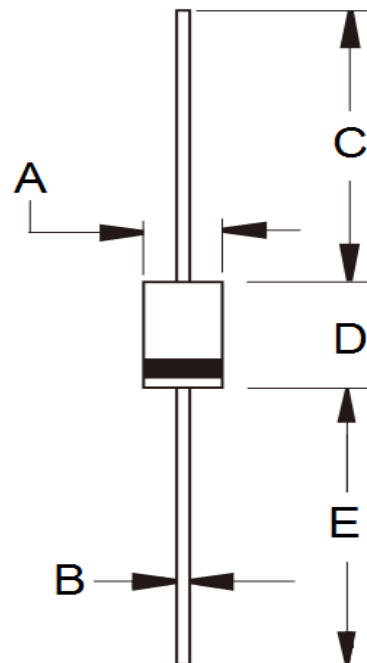


FIG. 4- TYPICAL REVERSE CHARACTERISTICS



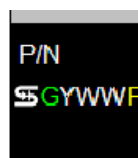


PACKAGE OUTLINE DIMENSIONS



DIM.	Unit(mm)		Unit(inch)	
	Min	Max	Min	Max
A	5.00	5.60	0.197	0.220
B	1.20	1.30	0.048	0.052
C	25.40	-	1.000	-
D	8.50	9.50	0.335	0.375
E	25.40	-	1.000	-

MARKING DIAGRAM



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