

- 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



DO-204AC (DO-15)

MECHANICAL DATA

Case: DO-204AC (DO-15)

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

Weight: 0.4g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	SR 202	SR 203	SR 204	SR 205	SR 206	SR 209
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	$I_{F(AV)}$	2					
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	50					
Maximum instantaneous forward voltage (Note 1) @ 2 A	V_F	0.55		0.70		0.85	
Maximum reverse current @ rated VR $T_J=25^{\circ}\text{C}$ $T_J=100^{\circ}\text{C}$ $T_J=125^{\circ}\text{C}$	I_R	0.5					
		10		5			
		-		-			
Voltage rate of change (Rated V_R)	dV/dt	10000					
Typical thermal resistance	$R_{\theta JC}$	14					
	$R_{\theta JL}$	21.7					
	$R_{\theta JA}$	75					
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=300 μs , 1% duty cycle

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EXAMPLE

PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESC
SR206 A0	SR206		A0		
SR206 A0G	SR206		A0	G	Green
SR206HA0	SR206	H	A0		AEC-Q

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

FIG. 1- FORWARD CURRENT DERATING CURVE

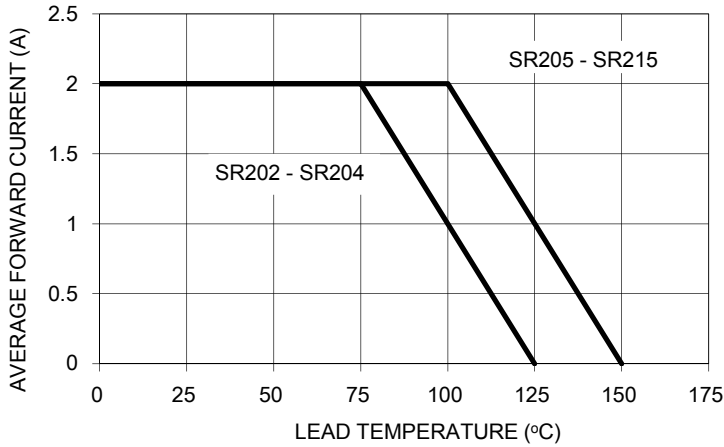


FIG. 2- MAXIMUM NON-REPETITIVE SURGE CURRENT

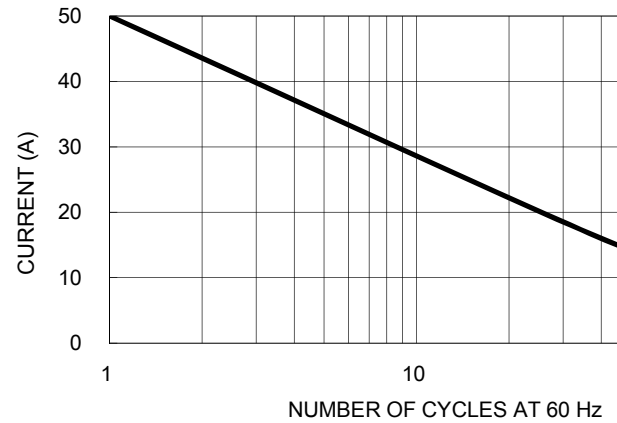


FIG. 3- TYPICAL FORWARD CHARACTERISTICS

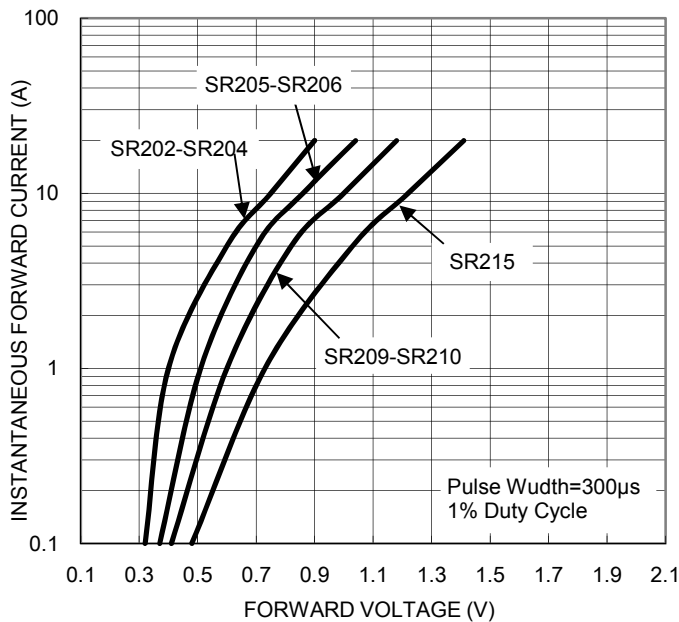
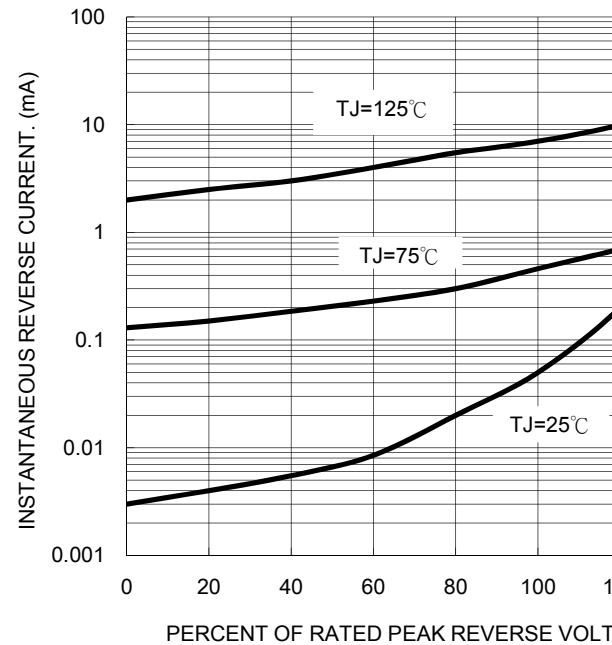
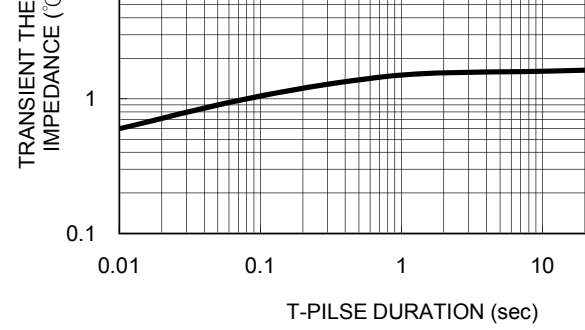
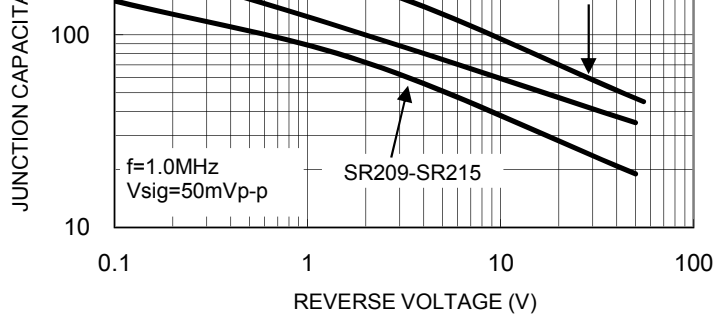
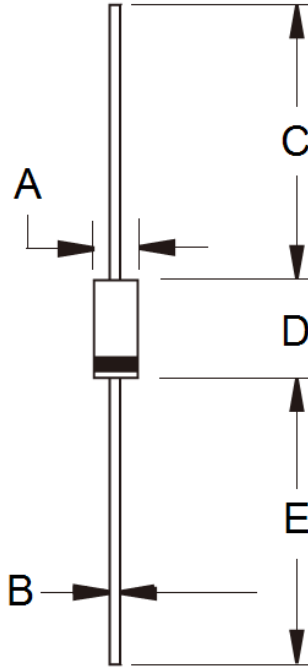


FIG. 4- TYPICAL REVERSE CHARACTERISTICS





PACKAGE OUTLINE DIMENSIONS



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	2.60	3.60	0.102	0.142
B	0.70	0.90	0.028	0.035
C	25.40	-	1.000	-
D	5.80	7.60	0.228	0.299
E	25.40	-	1.000	-

MARKING DIAGRAM



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

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