- myn 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 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: 1.1 g (approximately)





DO-201AD

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)								
PARAMETER	SYMBOL	SR 502	SR 503	SR 504	SR 505	SR 506	SR 509	SR 510
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)}	5						
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	120						
Maximum instantaneous forward voltage (Note 1) @ 5 A	V _F		0.55		0.70 0.8		85	
Maximum reverse current @ rated VR T _J =25 °C		0.5				0.1		
T _J =100℃	I _R	15		10			-	
T 」=125 ℃			_			_	ł	5
Voltage rate of change (Rated V _R)	dV/dt	10000						
Typical thermal resistance	R _{θJC} R _{θJA}	6 35						
Operating junction temperature range	TJ	- 55 to +125 - 55 to +150			o +150			
Storage temperature range	T _{STG}	- 55 to +150						

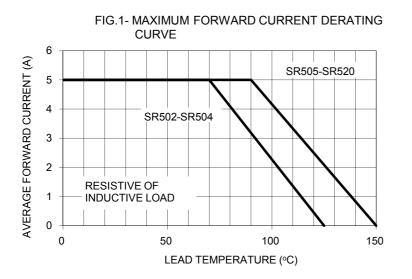
Note 1: Pulse test with PW=300 μ s, 1% duty cycle

Note 1: "xx" defines voltage from 20V (SR502) to 200V (SR520)

EXAMPLE									
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DE				
SR506 A0	SR506		A0						
SR506 A0G	SR506		A0	G	Gre				
SR506HA0	SR506	Н	A0		AEC				

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)



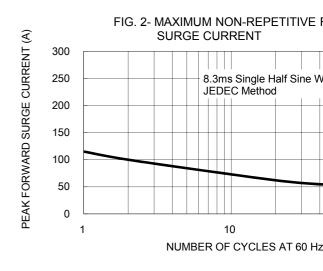
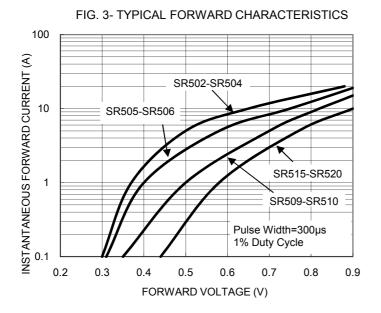
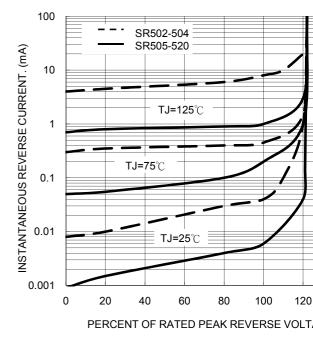
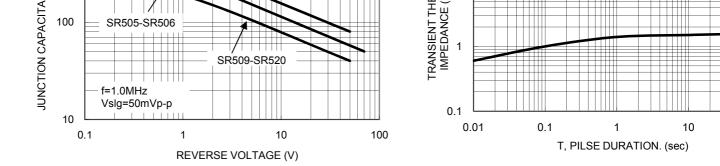


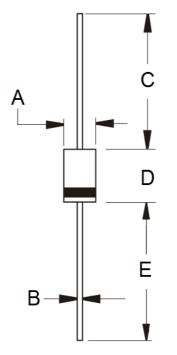
FIG. 4- TYPICAL REVERSE CHARACTERIST







PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)			
	Min	Max	Min	Max		
А	5.00	5.60	0.197	0.220		
В	1.20	1.30	0.048	0.052		
С	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

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