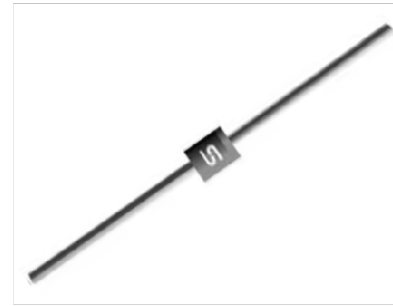


CREAT BY ART

Schottky Barrier Rectifier

FEATURES

- Low forward voltage drop
- Low power loss, high efficiency
- Guardring for overvoltage protection
- 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-201AD


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)

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	SR 515	SR 520	UNIT	
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	90	100	150	200	V	
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	63	70	105	140	V	
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	90	100	150	200	V	
Maximum average forward rectified current	I _{F(AV)}	5									A	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	120									A	
Maximum instantaneous forward voltage (Note 1) @ 5 A	V _F	0.55			0.70		0.85		1.05		V	
Maximum reverse current @ rated VR T _J =25 °C T _J =100 °C T _J =125 °C	I _R	0.5					0.1					mA
		15			10		-					
		-			-		5		1			
Voltage rate of change (Rated V _R)	dV/dt	10000									V/μs	
Typical thermal resistance	R _{θJC}	6									°C/W	
	R _{θJA}	35										
Operating junction temperature range	T _J	- 55 to +125				- 55 to +150						°C
Storage temperature range	T _{STG}	- 55 to +150									°C	

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

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ORDERING INFORMATION

PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING
SR5xx (Note 1)	Prefix "H"	A0	Suffix "G"	DO-201AD	500 / Ammo box
		R0		DO-201AD	1,250 / 13" Paper reel
		B0		DO-201AD	500 / Bulk packing
		X0		DO-201AD	Forming

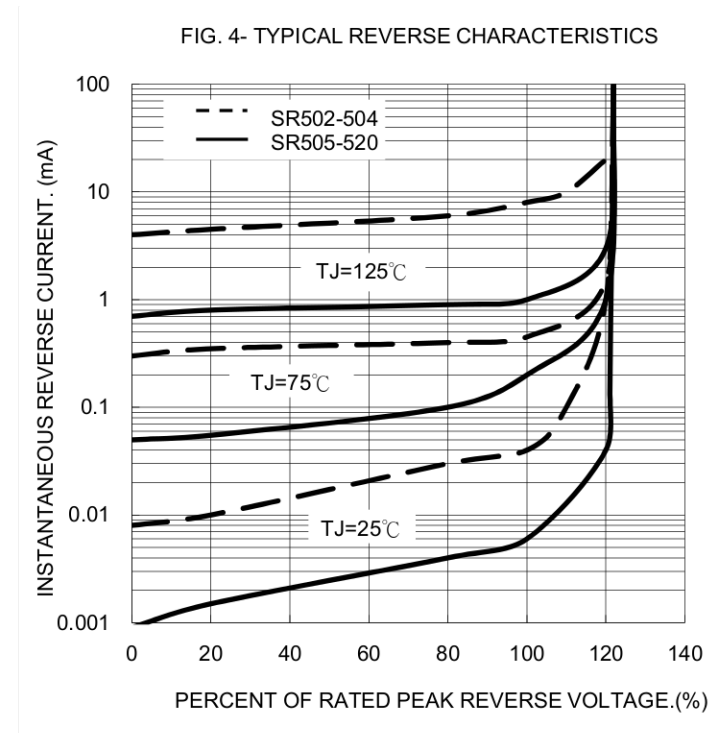
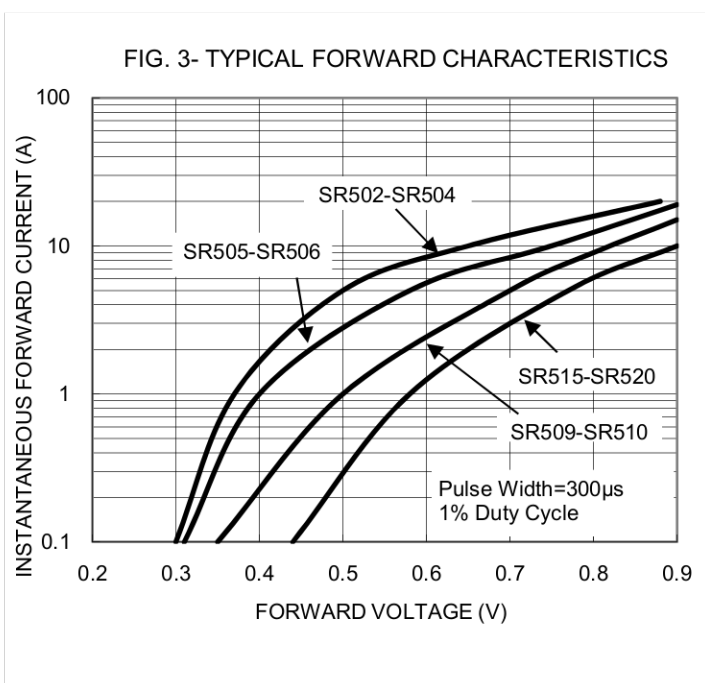
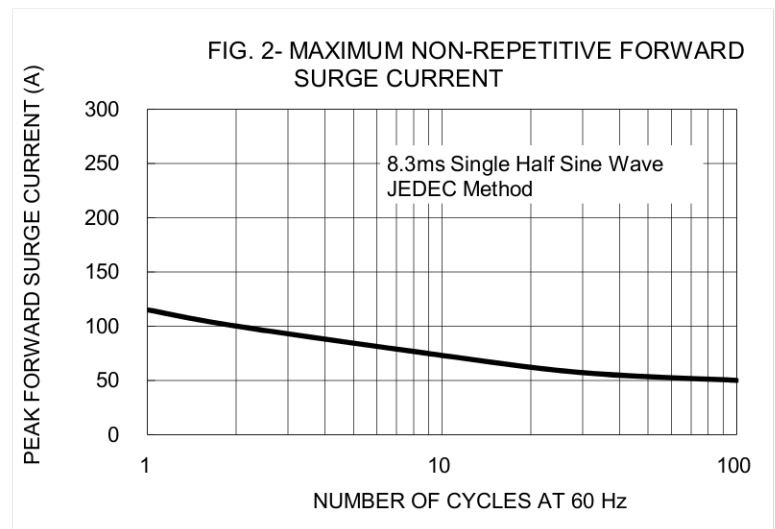
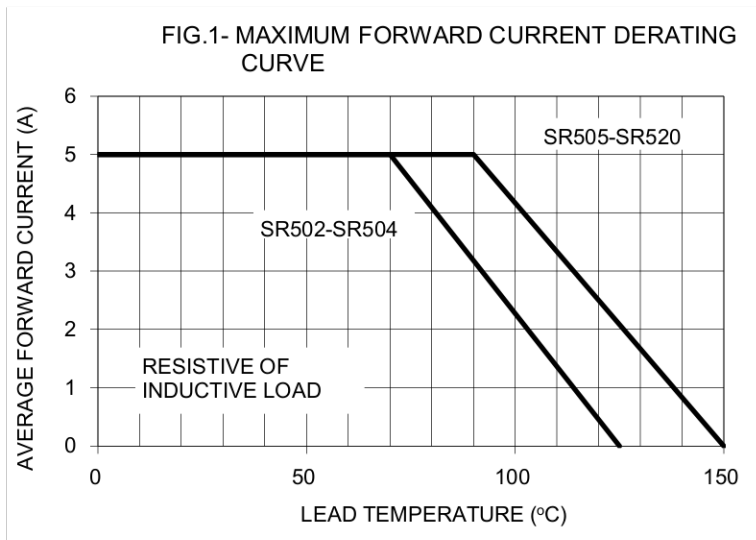
Note 1: "xx" defines voltage from 20V (SR502) to 200V (SR520)

EXAMPLE

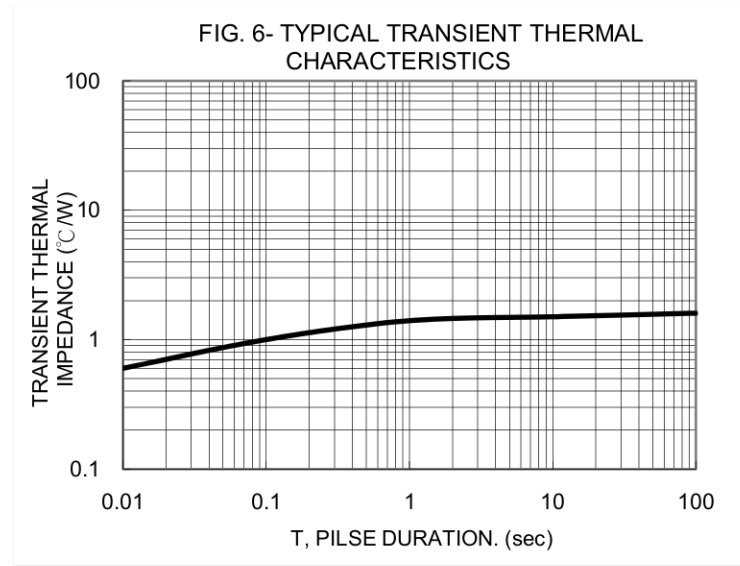
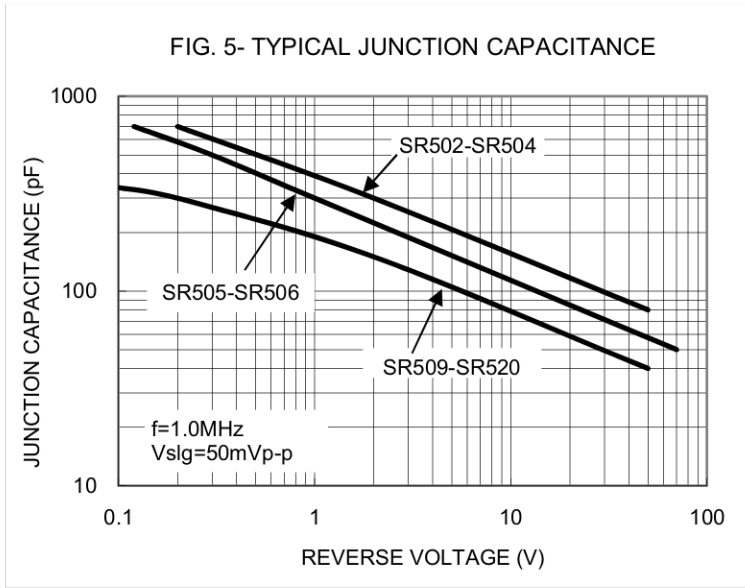
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
SR506 A0	SR506		A0		
SR506 A0G	SR506		A0	G	Green compound
SR506HA0	SR506	H	A0		AEC-Q101 qualified

RATINGS AND CHARACTERISTICS CURVES

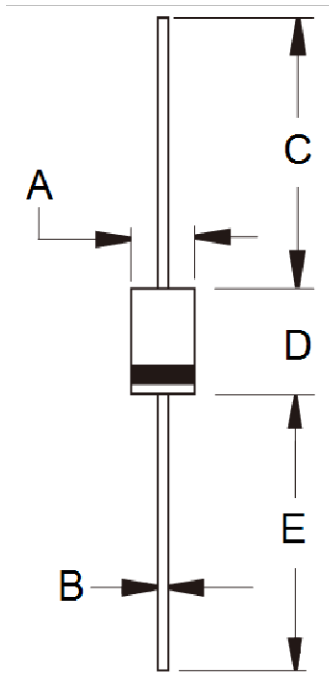
(TA=25°C unless otherwise noted)



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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

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