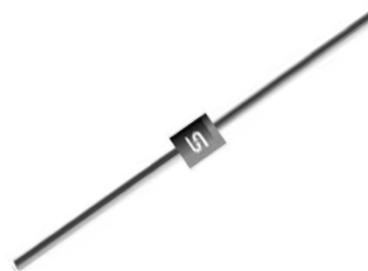


Schottky Barrier Rectifier

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-204AL(DO-41)

MECHANICAL DATA

Case : DO-204AL(DO-41)

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 : 0.33 gram (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)									
PARAMETER	SYMBOL	SR 002	SR 003	SR 004	SR 005	SR 006	SR 009	SR 010	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	90	100	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	63	70	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	90	100	V
Maximum average forward rectified current	I _{F(AV)}	0.5							A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	30							A
Maximum instantaneous forward voltage (Note 1) @ 0.5 A	V _F	0.55		0.70		0.85		V	
Maximum reverse current @ rated VR T _A =25 °C T _A =100°C T _A =125 °C	I _R	0.5					0.1		mA
		10		5		-			
		-		-		2			
Typical Junction Capacitance (Note 2)	C _j	110		80		65		pF	
Typical thermal resistance	R _{θJA}	50							°C/W
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=300u sec, 1% duty cycle

Note 2 : Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

ORDERING INFORMATION					
PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING
SR0xx (Note 1)	Prefix "H"	A0	Suffix "G"	DO-41	3000 / Ammo box (52mm taping)
		A1		DO-41	3000 / Ammo box (26mm taping)
		R0		DO-41	5000 / 13" Paper reel
		R1		DO-41	5000 / 13" Paper reel (Reverse)
		B0		DO-41	1000 / Bulk packing

Note 1: "xx" defines voltage from 20V (SR002) to 100V (SR010)

EXAMPLE					
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
SR006 A0	SR006		A0		
SR006 A0G	SR006		A0	G	Green compound
SR006HA0	SR006	H	A0		AEC-Q101 qualified

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

FIG. 1- FORWARD CURRENT DERATING CURVE

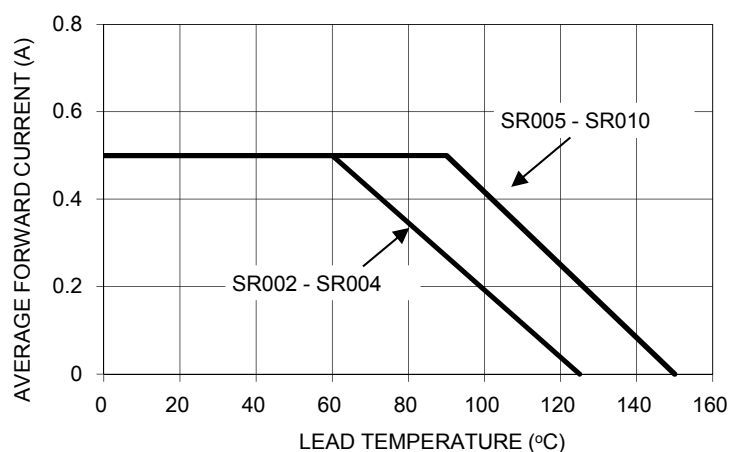


FIG. 2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

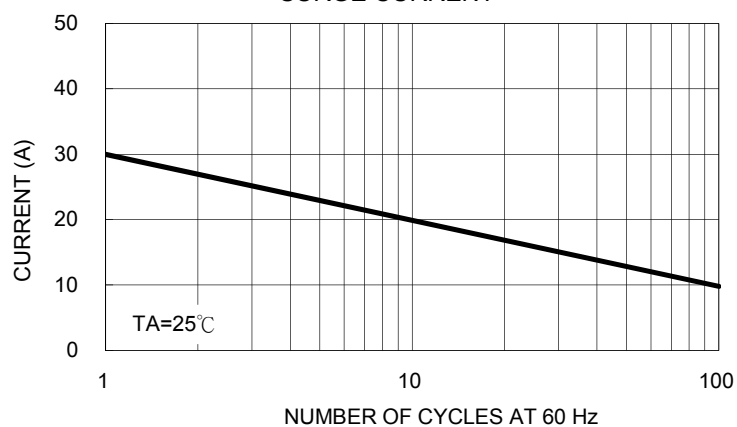


FIG. 3- TYPICAL FORWARD CHARACTERISTICS

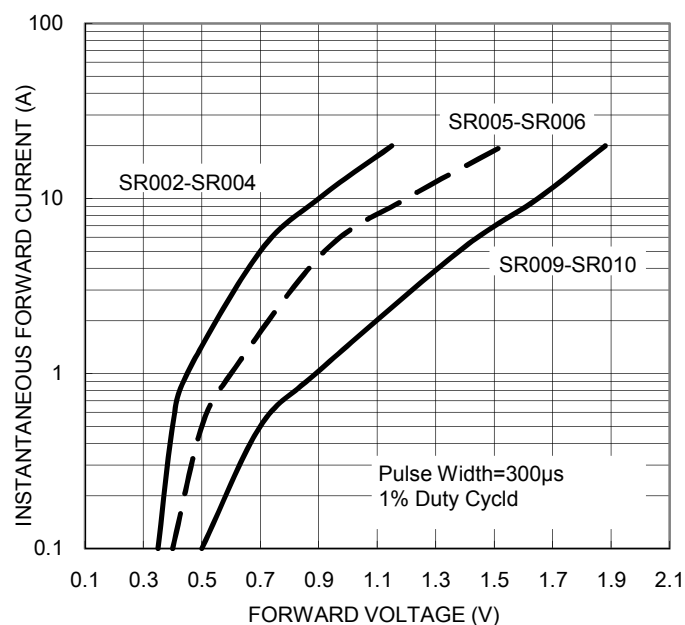


FIG. 4- TYPICAL REVERSE CHARACTERISTICS

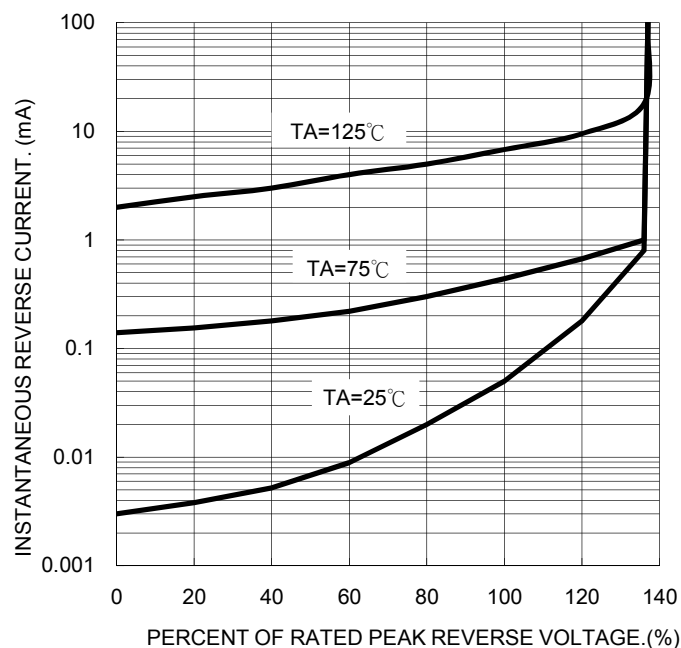


FIG. 5- TYPICAL JUNCTION CAPACITANCE

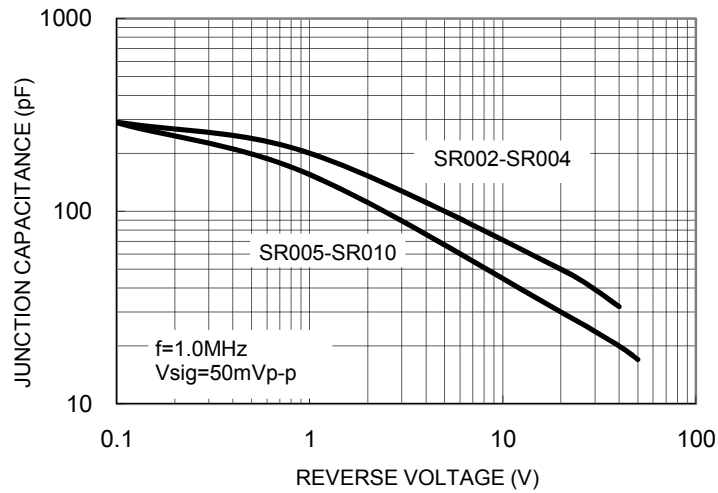
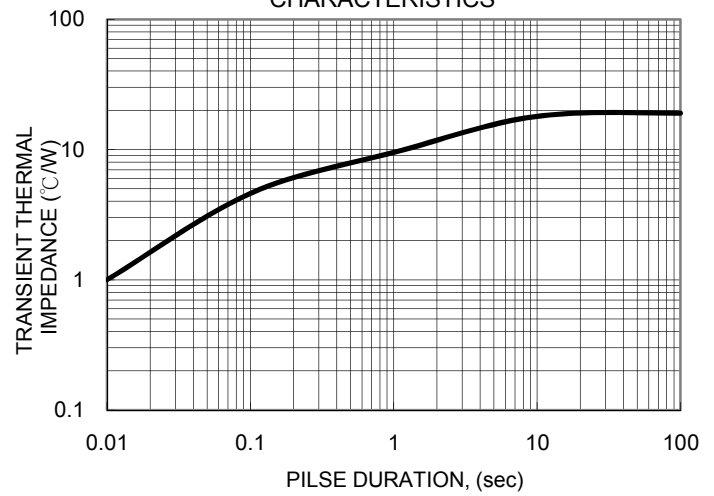
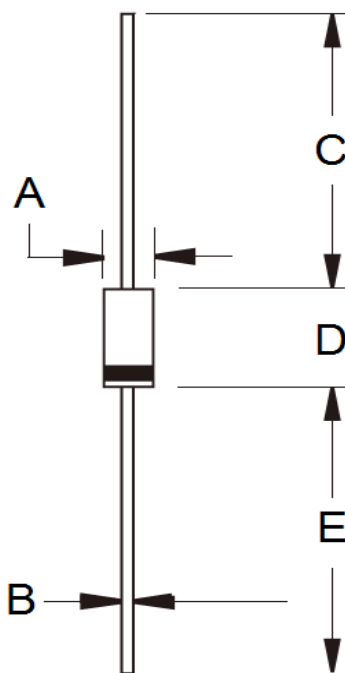


FIG. 6- TYPICAL TRANSIENT THERMAL CHARACTERISTICS



PACKAGE OUTLINE DIMENSIONS



DIM.	Unit(mm)		Unit(inch)	
	Min	Max	Min	Max
A	2.00	2.70	0.079	0.106
B	0.71	0.86	0.028	0.034
C	25.40	-	1.000	-
D	4.20	5.20	0.165	0.205
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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