



0.5A, 20V - 100V Schottky Barrier Rectifiers

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



DO-204AL (DO-41)





MECHANICAL DATA

Case: DO-204AL (DO-41)

Molding compound, UL flammability classification rating 94V-0

Part no. with suffix "H" means AEC-Q101 qualified

Packing code with suffix "G" means green compound (halogen-free) **Terminal:** Pure tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test **Weight:** 0.33g (approximately)

	CVMDOL	SR	SR	SR	SR	SR	SR	SR	UNIT
PARAMETER	SYMBOL	002	003	004	005	006	009	010	
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					Α		
Peak forward surge current, 8.3 ms single half s superimposed on rated load	ne-wave I _{FSM}	30				А			
Maximum instantaneous forward voltage (Note 1 @ 0.5 A) V _F	0.55 0.70 0.85		85	V				
T _J =25°	С	0.5 0.1		.1					
Maximum reverse current @ rated V _R T _J =100)°C I _R		10		5		-		mA
T _J =129	5°C	-		-		2	2	•	
Typical junction capacitance (Note 2)	C _J	110 80		30	65		pF		
Typical thermal resistance	$R_{ heta JA}$	50			°C/W				
Operating junction temperature range	TJ	- 55 to +125 - 55 to +150			°C				
Storage temperature range	T _{STG}	- 55 to +150				°C			

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

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



ORDERING INFORMATION						
PART NO.	PART NO.	PACKING CODE	PACKING CODE	PACKAGE	PACKING	
	SUFFIX		SUFFIX (*)			
		A0		DO-41	3,000 / Ammo box (52mm taping)	
SR0xx (Note 1)	Н	R0	G	DO-41	5,000 / 13" Paper reel	
		R1	G	DO-41	5,000 / 13" Paper reel (Reverse)	
		В0		DO-41	1,000 / Bulk packing	

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

^{*:} Optional available

EXAMPLE						
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION	
SR006HA0G	SR006	Н	A0	G	AEC-Q101 qualified Green compound	

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)



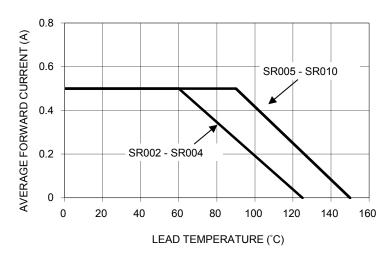


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

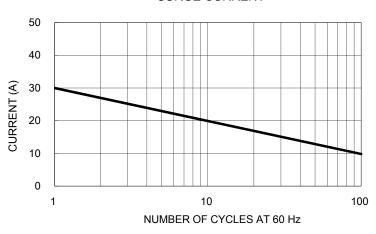


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

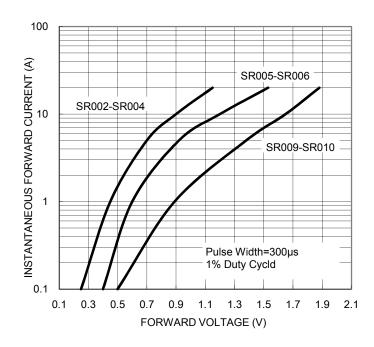
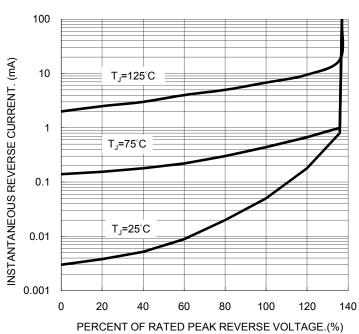
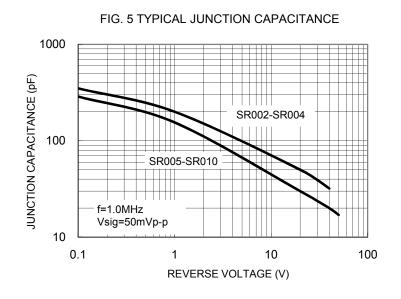


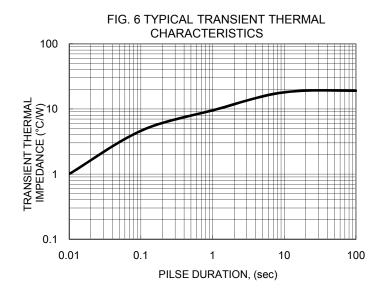
FIG. 4 TYPICAL REVERSE CHARACTERISTICS



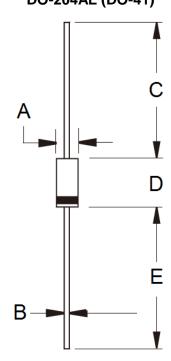
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PACKAGE OUTLINE DIMENSIONS DO-204AL (DO-41)



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min Max Min		Min	Max	
Α	2.00	2.70	0.079	0.106	
В	0.71	0.86	0.028	0.034	
С	25.40	-	1.000	-	
D	4.20	5.20	0.165	0.205	
Е	25.40	-	1.000	-	

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YWW = Date Code F = Factory Code



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