

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China











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



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)







DO-20	74 / 1	(DO-41)
DO-21	J4AL ((DU-41

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						Α	
Peak forward surge current, 8.3 ms single half sine superimposed on rated load	wave I _{FSM}	30						А	
Maximum instantaneous forward voltage (Note 1) @ 0.5 A	V _F	0.55 0.70		0.	85	V			
T _J =25°C		0.5 0.1			.1				
Maximum reverse current @ rated V _R T _J =100°C	I _R	10		5			-		
T _J =125°C			-			_	:	2	1
Typical junction capacitance (Note 2)	CJ	110 80		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	Н	R0	G	DO-41	5,000 / 13" Paper reel		
(Note 1)	П	R1		DO-41	5,000 / 13" Paper reel (Reverse)		
		B0		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)



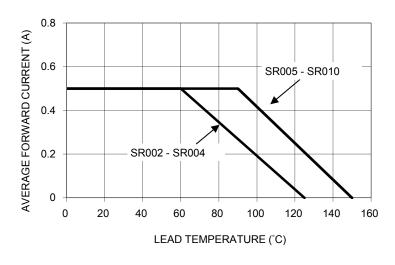


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

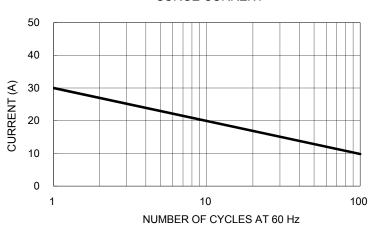


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

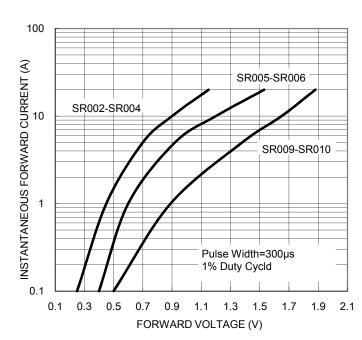
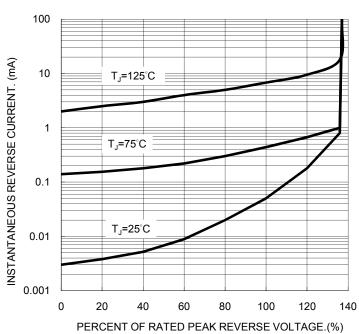
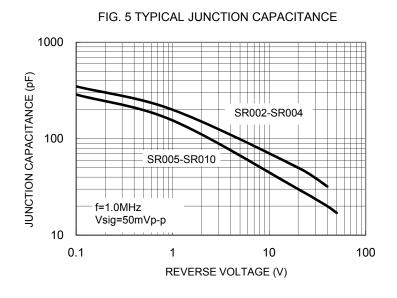


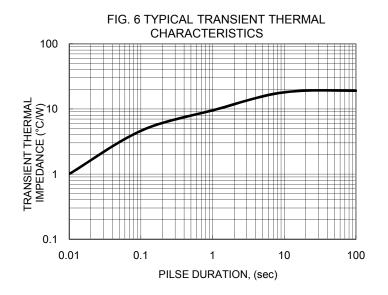
FIG. 4 TYPICAL REVERSE CHARACTERISTICS



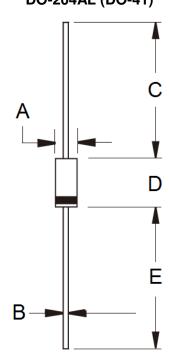
Document Number: DS_D1308043 Version: G15







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



DIM.	Unit	(mm)	Unit (inch)			
DIWI.	Min	Max	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





Notice

Specifications of the products displayed herein are subject to change without notice. TSC or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, to any intellectual property rights is granted by this document. Except as provided in TSC's terms and conditions of sale for such products, TSC assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of TSC products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify TSC for any damages resulting from such improper use or sale.

Document Number: DS_D1308043 Version: G15