



3A, 200V - 800V Silicon Rectifiers

FEATURES

- High efficiency, Low VF
- High current capability
- High reliability
- High surge current capability
- Low power loss
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21



DO-201AD





MECHANICAL DATA

Case: DO-201AD

Molding compound, UL flammability classification rating 94V-0 Packing code with suffix "G" means green compound (halogen-free) **Terminal:** Pure tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

Weight: 1.2 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARA	ACTERSTIC	CS (T _A =25	°C unless	otherwise r	noted)	
PARAMETER	SYMBOL	BY251	BY252	BY253	BY254	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	V
Maximum RMS voltage	V _{RMS}	140	280	420	560	V
Maximum DC blocking voltage	V_{DC}	200	400	600	800	V
Maximum average forward rectified current	I _{F(AV)}	3				Α
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150			Α	
Maximum instantaneous forward voltage (Note 1) @ 3 A	V _F	1.0			V	
Maximum reverse current @ rated V _R T _J =25°C	I _R	5 100			μA	
Typical junction capacitance (Note 2)	CJ	40				pF
Typical thermal resistance	$R_{\theta JA}$		4	0		°C/W
Operating junction temperature range			°C			
Storage temperature range	T _{STG}		- 55 to	+150		°C

Note1: Pulse Test with PW=300µs, 1% Duty Cycle

Note2: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.



ORDERING	INFORMATION			
PART NO.	PACKING CODE	PACKING CODE	PACKAGE	PACKING
		SUFFIX (*)		
DV05	A0		DO-201AD	500 / Ammo box
BY25x (Note 1)	R0	G	DO-201AD	1,250 / 13" Paper reel
(14010-1)	B0		DO-201AD	500 / Bulk packing

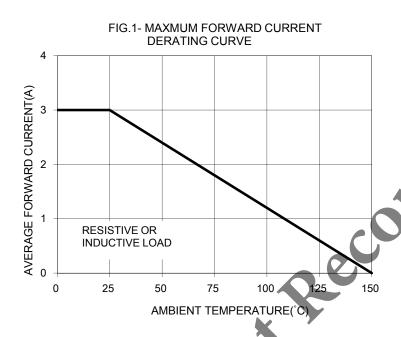
Note 1: "x" defines voltage from 200V (BY251) to 800V (BY254)

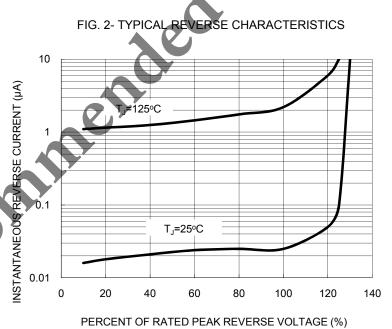
^{*:} Optional available

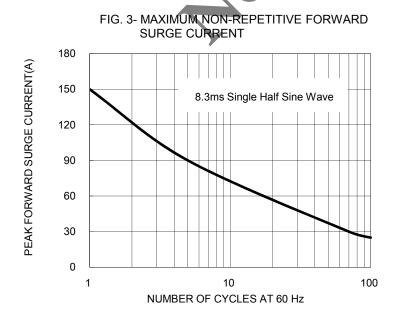
EXAMPLE				
PREFERRED P/N	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
BY251 A0G	BY251	A0	G	Green compound

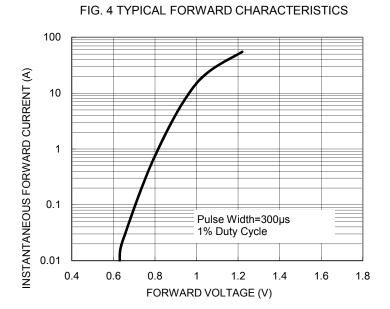
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

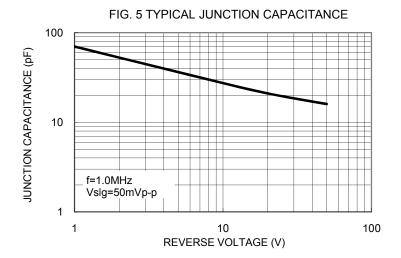






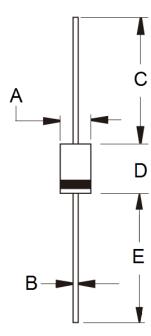






PACKAGE OUTLINE DIMENSIONS

DO-201AD



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 -	DIM.	Unit	(mm)	Unit (inch)	
B 1.20 1.30 0.048 0.052 C 25.40 - 1.000 - D 8.50 9.50 0.335 0.375	DIIVI.	Min Max		Min	Max	
C 25.40 - 1.000 - D 8.50 9.50 0.335 0.375	Α	5.00	5.60	0.197	0.220	
D 8.50 9.50 0.335 0.375	В	1.20	1.30	0.048	0.052	
	С	25.40	-	1.000	-	
E 25.40 - 1.000 -	D	8.50	9.50	0.335	0.375	
	Е	25.40	-	1.000	-	

MARKING DIAGRAM



P/N = Specific Device Code

G = Green Compound

YWW = Date Code

F = Factory Code





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_D1406026 Version: D15

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Rectifiers category:

Click to view products by Taiwan Semiconductor manufacturer:

Other Similar products are found below:

70HFR40 RL252-TP 150KR30A 1N5397 NTE5841 NTE6038 SCF5000 1N4002G 1N4005-TR JANS1N6640US 481235F
RRE02VS6SGTR 067907F MS306 70HF40 T85HFL60S02 US2JFL-TP A1N5404G-G CRS04(T5L,TEMQ) ACGRA4007-HF
ACGRB207-HF CLH03(TE16L,Q) ACGRC307-HF ACEFC304-HF NTE6356 NTE6359 NTE6002 NTE6023 NTE6039 NTE6077
85HFR60 40HFR60 70HF120 85HFR80 D126A45C SCF7500 D251N08B SCHJ22.5K SM100 SCPA2 SCH10000 SDHD5K VS12FL100S10 ACGRA4001-HF D1821SH45T PR D1251S45T NTE5990 NTE6358 NTE6162 NTE5850