



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 CHARACTERSTICS (T _A =25°C unless otherwise 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)}	(AV) 3				Α		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150				А		
Maximum instantaneous forward voltage (Note 1) @ 3 A	V _F	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)	C _J	40				pF		
Typical thermal resistance	$R_{\theta JA}$	40			°C/W			
Operating junction temperature range	T _J	- 55 to +150				°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 SUFFIX ^(*)	PACKAGE	PACKING				
D)/05	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				

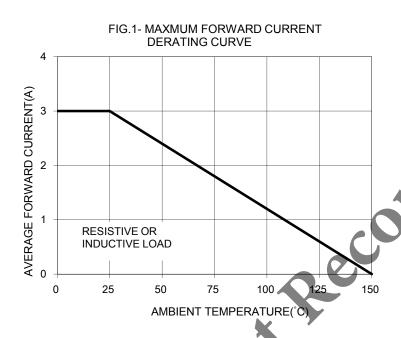
Note 1: "x" defines voltage from 200V (BY251) to 800V (BY254)

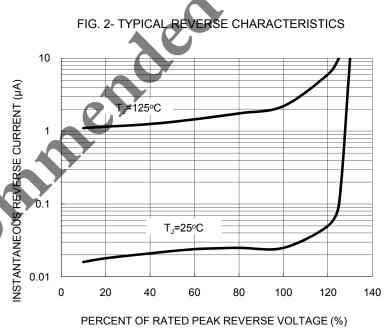
^{*:} Optional available

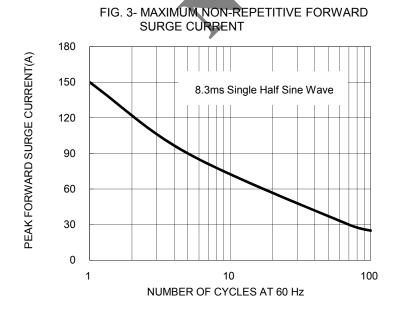
EXAMPLE								
PREFERRED P/N	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION				
BY251 A0G	BY251	A0	G	Green compound				

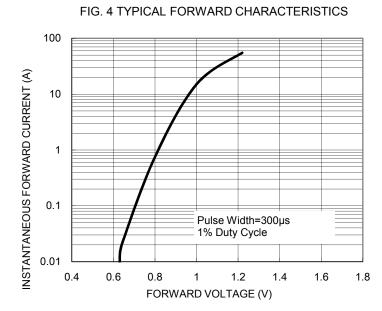
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)



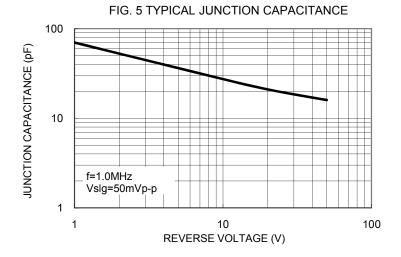




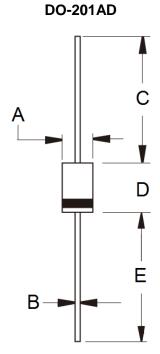


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PACKAGE OUTLINE DIMENSIONS



MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YWW = Date Code

F = Factory Code





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