

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

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)}	3			Α		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150			A		
Maximum instantaneous forward voltage (Note 1) @ 3 A	V _F	1.0			V		
Maximum reverse current @ rated V_R $T_J=25^{\circ}C$	I _R	5 100			μA		
Typical junction capacitance (Note 2)	CJ	40		pF			
Typical thermal resistance	R _{θJA}	40		°C/W			
Operating junction temperature range	TJ	- 55 to +150		°C			
Storage temperature range	T _{STG}	- 55 to +150 °C					
Noto1: Dulas Tost with DW-200us, 10/ Duty Ovals	•	•				•	

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

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



Taiwan Semiconductor

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				
	B0		DO-201AD	500 / Bulk packing				

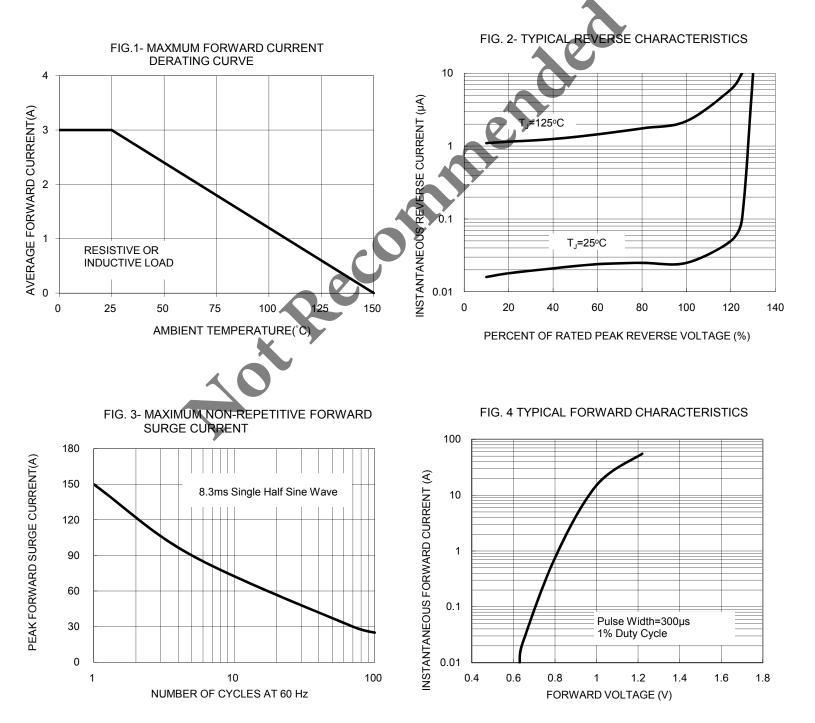
Note 1: "x" defines voltage from 200V (BY251) to 800V (BY254)

*: Optional available

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

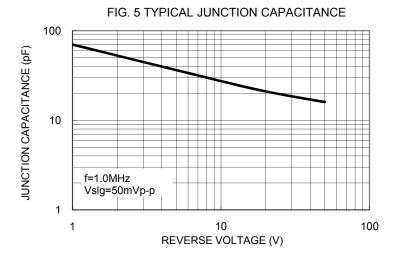
RATINGS AND CHARACTERISTICS CURVES

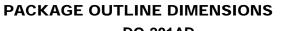
 $(T_A=25^{\circ}C \text{ unless otherwise noted})$

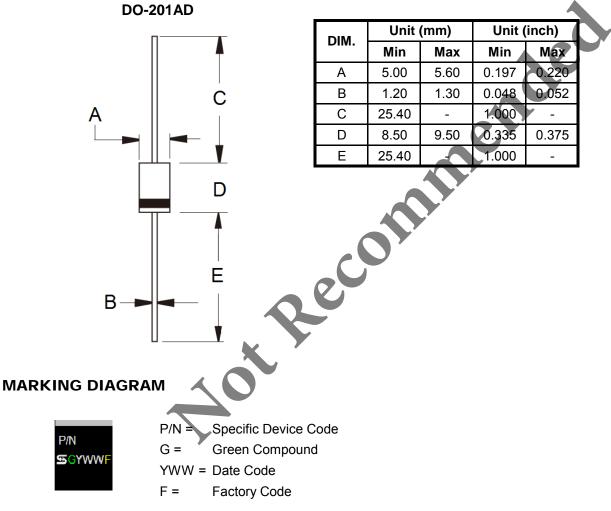


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