



5A, 200V - 600V Ultra Fast Rectifiers

FEATURES

- 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 definition
- AEC-Q101 qualified



DO-201AD





MECHANICAL DATA

Case: DO-201AD

Molding compound, UL flammability classification rating 94V-0 Part no. 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:** 1.1 g (approximately)

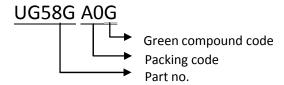
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)								
PARAMETER	SYMBOL	UG54G	UG56G	UG58G	UNIT			
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	V			
Maximum RMS voltage	V_{RMS}	140	280	420	V			
Maximum DC blocking voltage	V_{DC}	200	400	600	V			
Maximum average forward rectified current	I _{F(AV)}	5		Α				
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	65		А				
Maximum instantaneous forward voltage @ 5 A / T _J =25°C @ 5 A / T _J =125°C	V _F	1.05 -	1.55 -	2.10 1.70	V			
Maximum reverse current @ rated VR T_J =25 °C T_J =125 °C	I _R	10 30 100 200		μA				
Maximum reverse recovery time (Note 2)	t _{rr}	20		ns				
Typical thermal resistance	$R_{ heta JL}$	11 15		°C/W				
Operating junction temperature range	T _J	- 55 to +175 - 55 to +150		°C				
Storage temperature range	T _{STG}	- 55 to +175 - 55 to +150		°C				

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

Note 2: Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A

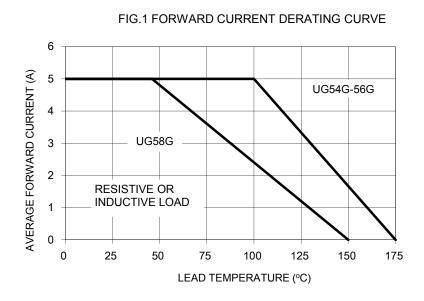


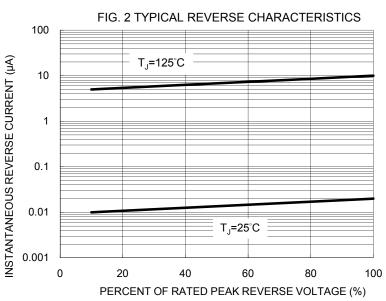
ORDER INFORMATION (EXAMPLE)

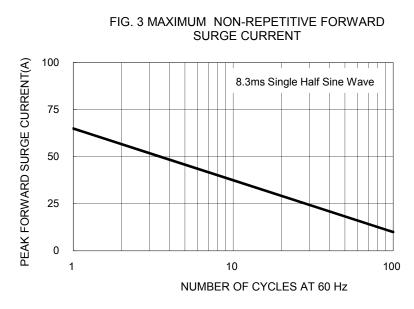


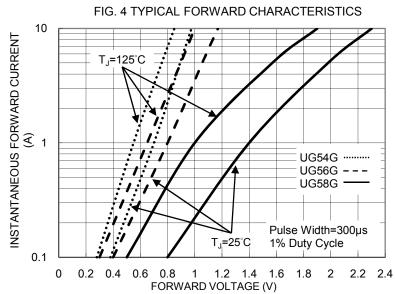
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)





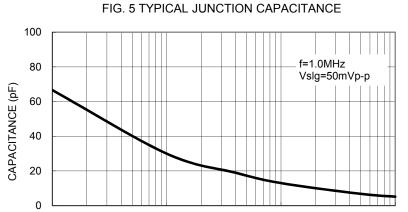




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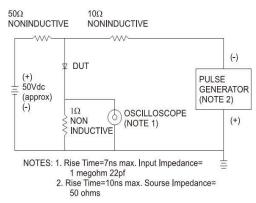


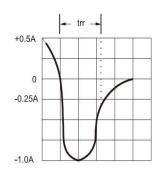
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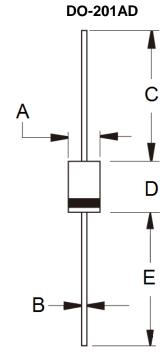
REVERSE VOLTAGE (V)

FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





PACKAGE OUTLINE DIMENSIONS



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

100

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound YWW = Date Code

F = Factory Code

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