

4A, 200V - 600V Ultrafast Glass Passivated Rectifiers

FEATURES

- Ideally suited for use in very high frequency switching power supplies, inverters and as free wheeling diodes
- Ultrafast recovery time for high efficiency
- Excellent high temperature switching
- Glass passivated junction
- 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-201AD

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:** 1.2 g (approximately)







ט	U -	ZU	1 /-	V

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)						
MUR440 MUR460 UNIT	MUR420	SYMBOL	PARAMETER			
400 600 V	200	V_{RRM}	Maximum repetitive peak reverse voltage			
280 420 V	140	V_{RMS}	Maximum RMS voltage			
400 600 V	200	V_{DC}	Maximum DC blocking voltage			
4 A		I _{F(AV)}	Maximum average forward rectified current			
125 A	125		Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load			
1.28 V	0.89	V _F	Maximum instantaneous forward voltage (Note 1) @ 4 A			
10 250 μΑ	5 150	I _R	Maximum reverse current @ rated V_R $T_J=25^{\circ}C$ $T_J=125^{\circ}C$			
50 ns	25	t _{rr}	Maximum reverse recovery time (Note 2)			
65 pF		CJ	Typical junction capacitance (Note 3)			
15		$R_{ heta JL}$				
28 °C/W			i ypicai thermai resistance			
- 55 to +175 °C	- 55 to +175		Operating junction temperature range			
- 55 to +175 °C	- 55 to +175		Storage temperature range			
28 - 55 to +175		R _{0JA} T _J T _{STG}	<u> </u>			

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

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

Note 3: 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 (*)		
MUR4x0 (Note 1)		A0	G	DO-201AD	500 / Ammo box
	Н	R0		DO-201AD	1,250 / 13" Paper reel
	П	B0		DO-201AD	500 / Bulk packing
		X0		DO-201AD	Forming

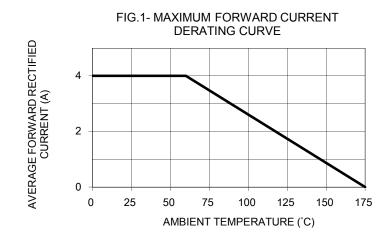
Note 1: "x" defines voltage from 200V (MUR420) to 600V (MUR460)

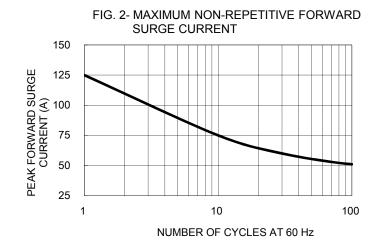
^{*:} Optional available

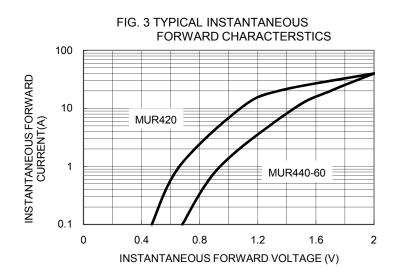
EXAMPLE					
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
MUR460HA0G	MUR460	Н	A0	G	AEC-Q101 qualified Green compound

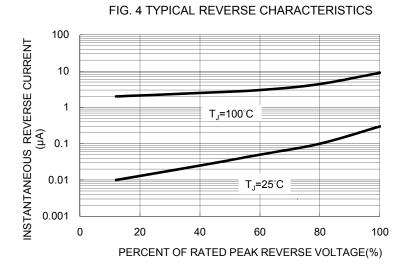
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)









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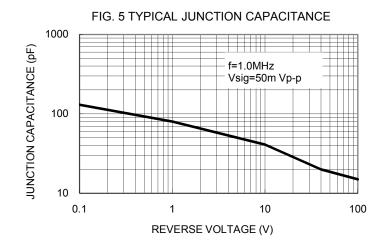
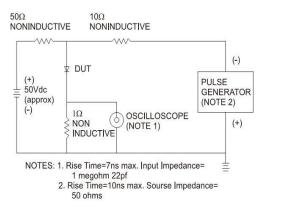
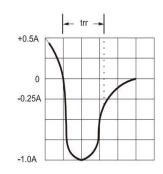
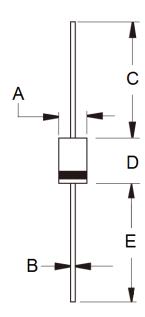


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





PACKAGE OUTLINE DIMENSIONS DO-201AD



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	
Е	25.40	-	1.000	-	

MARKING DIAGRAM



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



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