

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)







(app. o.m. a.e.,)					
MAXIMUM RATINGS AND ELECTRICAL CHAP	RACTERISTI	CS (T _A =25°C ເ	unless otherwis	e noted)	
PARAMETER	SYMBOL	MUR420	MUR440	MUR460	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)}	4		Α	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	125			А
Maximum instantaneous forward voltage (Note 1) @ 4 A	V _F	0.89	1.28		V
Maximum reverse current @ rated V_R $T_J=25^{\circ}C$ $T_J=125^{\circ}C$	I _R	5 150	10 250		μA
Maximum reverse recovery time (Note 2)	t _{rr}	25	50		ns
Typical junction capacitance (Note 3)	CJ		65		pF
T. micel the supper language	$R_{ heta JL}$	15			°C/W
Typical thermal resistance	$R_{\theta JA}$	28			
Operating junction temperature range	T _J	- 55 to +175		°C	
Storage temperature range	T _{STG}	- 55 to +175		°C	

Note 1: Pulse Test with PW=300 μ s, 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		DO-201AD	500 / Ammo box	
	ш	R0	G	DO-201AD	1,250 / 13" Paper reel	
	Н	B0	G	DO-201AD	500 / Bulk packing	
		X0		DO-201AD	Forming	

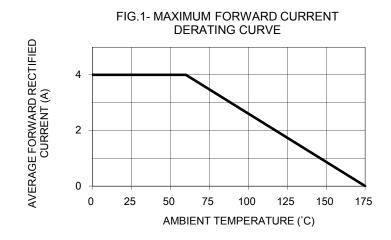
Note 1: "x" defines voltage from 200V (MUR420) to 600V (MUR460)

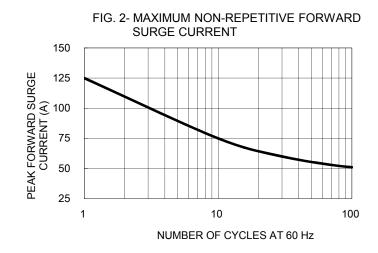
^{*:} Optional available

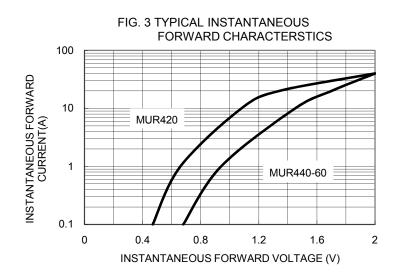
EXAMPLE					
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
MUR460HA0G	MUR460	Н	A0	G	AEC-Q101 qualified Green compound

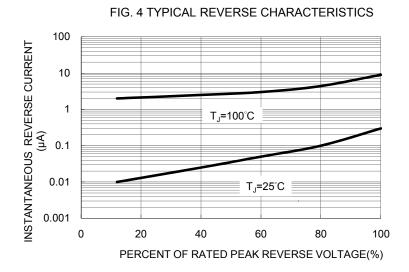
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)











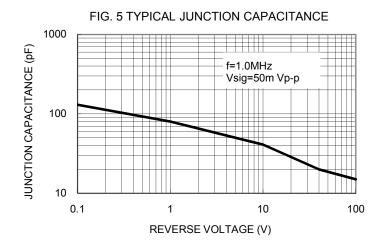
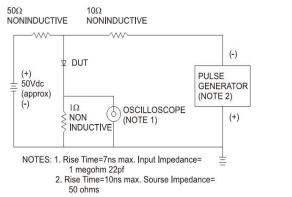
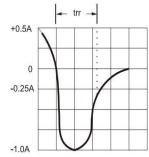


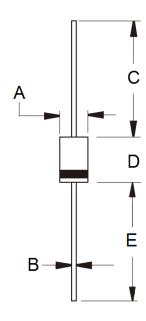
FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





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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