

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 definition



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)

Packing code with suffix "H" means AEC-Q101 qualified **Terminal:**Matte tin plated leads, solderable per J-STD-002

Meet JESD 201 class 2 whisker test, **Weight:** 1.2 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERSTICS (T _A =25°C unless otherwise noted)						
PARAMETER	SYMBOL	MUR4L20	MUR4L40	MUR4L60	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		٧		
Maximum reverse current @ rated VR T_J =25 °C T_J =125 °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	
Turking lith annual marintan an	$R_{\theta JA}$	42			°C/W	
Typical thermal resistance	$R_{ heta JL}$	15			°C/W	
Operating junction temperature range	TJ	- 55 to +175		°C		
Storage temperature range	T _{STG}	- 55 to +175			°C	

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.



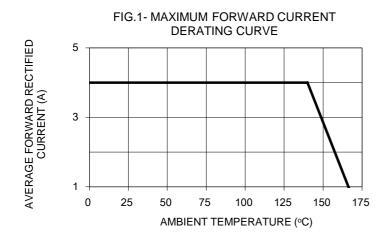
ORDERING INFORMATION							
PART NO.	AEC-Q101	PACKING CODE	PACKING CODE	PACKAGE	PACKING		
	QUALIFIED		SUFFIX				
MUR4LX0 (Note 1)	Н	A0	G	DO-201AD	500 / Ammo box		
		R0			1,250 / 13" paper reel		
		В0			500 / Bulk packing		
		X0			Forming		

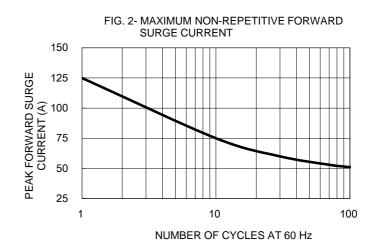
Note 1: "x" defines voltage from 200V (MUR4L20) to 600V (MUR4L60)

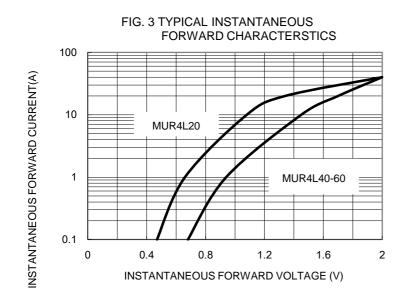
EXAMPLE						
EXAMPLE PART NO.	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE	DESCRIPTION	
MUR4L60HA0G	MUR4L60	Н	A0	G	AEC-Q101 qualified Green compound	

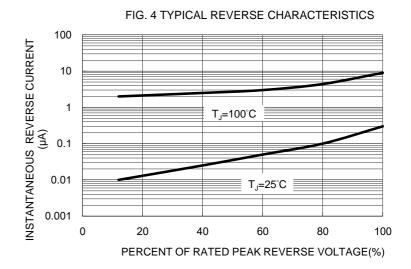
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

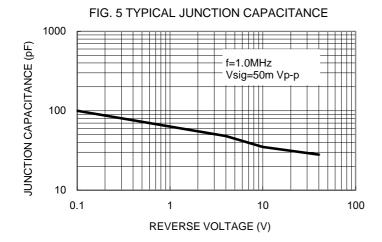






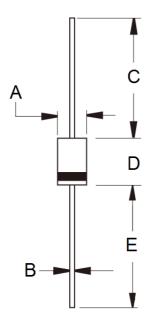






PACKAGE OUTLINE DIMENSIONS

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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