

1A, 600V - 900V Glass Passivated High Efficient Rectifiers

FEATURES

- Designed for use in switching power supplies, inverters and as free wheeling diodes
- High efficiency, low VF
- High reliability
- Ultrafast recovery time for high efficiency
- 175°C operating junction temperature
- 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-204AL (DO-41)

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: 0.33 g (approximately)







DO-204AL	(DO-41)
DO-ZUTAL ((00-41)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)					
PARAMETER		SYMBOL	MUR160A	MUR190A	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	600	900	V
Maximum RMS voltage		V_{RMS}	420	630	V
Maximum DC blocking voltage		V_{DC}	600	900	V
Maximum average forward rectified current		I _{F(AV)}	1		Α
Peak forward surge current, 8.3 ms single has superimposed on rated load	nalf sine-wave	I _{FSM}	3	35	А
Maximum instantaneous forward voltage	T _J =25°C	\/	1.25	1.70	V
@ 1 A (Note 1)	T_J =125°C	V_{F}	1.05	1.50	V
Maximum reverse current @ rated V _R	T _J =25°C T _J =125°C	I _R	5 150		μΑ
Maximum reverse recovery time (Note 2)		t _{rr}	50	75	ns
Typical junction capacitance (Note 3)		CJ	27	15	pF
Typical thermal resistance		$R_{\theta JA}$	50		°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.	PART NO.	PACKING CODE	PACKING CODE	PACKAGE	PACKING
	SUFFIX		SUFFIX (*)		
		A0		DO-41	3,000 / Ammo box (52mm taping)
MUR1x0A (Note 1)	ш	R0	G	DO-41	5,000 / 13" Paper reel
	П	R1		DO-41	5,000 / 13" Paper reel (Reverse)
		В0		DO-41	1,000 / Bulk packing

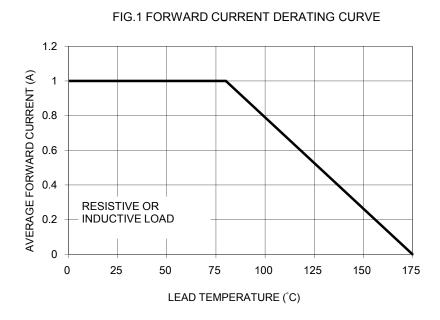
Note 1: "x" defines voltage from 600V (MUR160A) to 900V (MUR190A)

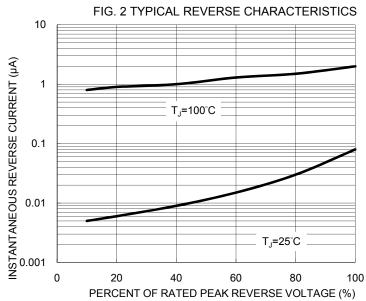
^{*:} Optional available

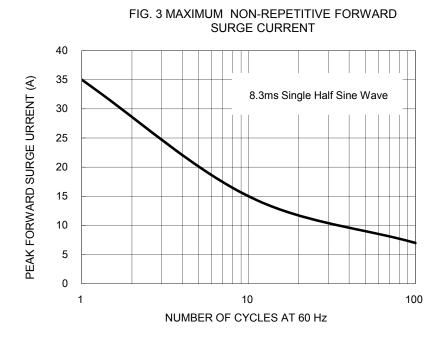
EXAMPLE					
PREFERRED PART NO.	PART NO. PACKING CODE SUFFIX		PACKING CODE SUFFIX	DESCRIPTION	
MUR160AHA0G	MUR160A	Н	A0	G	AEC-Q101 qualified Green compound

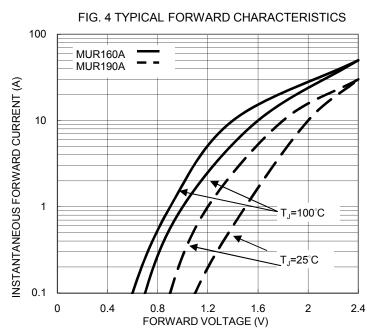
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)











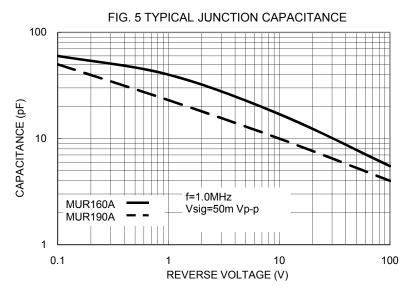
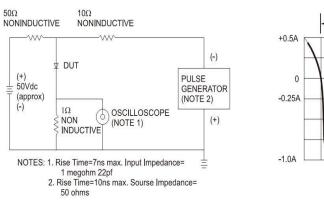
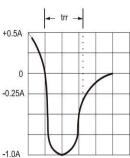
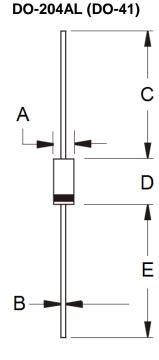


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





PACKAGE OUTLINE DIMENSIONS



DIM.	Unit (mm)		Unit (inch)		
	Min	Max	Min	Max	
Α	2.00	2.70	0.079	0.106	
В	0.71	0.86	0.028	0.034	
С	25.40	-	1.000	-	
D	4.20	5.20	0.165	0.205	
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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