



Glass Passivated High Efficient Rectifiers

FEATURES

- Designed for use in switching power supplies, 'inverters and as free wheeling diodes
- High efficiency, Low VF
- Ultrafast recovery time for high efficiency
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition



Case: DO-204AC (DO-15)

Molding compound, UL flammability classification rating 94V-0

Base P/N with suffix "G" on packing code - green compound (halogen-free)

Base P/N with prefix "H" on packing code - AEC-Q101 qualified **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

with prefix "H" on packing code meet JESD 201 class 2 whisker test

Weight: 0.4g (approximately)



MAXIMUM RATINGS AND ELECTRICAL CHARA	ACTERISTICS ($\Gamma_{\rm A}$ =25 $^{\circ}$ C unless otherw	vise noted)	
PARAMETER	SYMBOL	MUR160	MUR190	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 half sine-wave superimposed on rated load	I _{FSM}	35		А
Maximum instantaneous forward voltage (Note 1) @ 1 A T_J =150 $^{\circ}$ C T_J =25 $^{\circ}$ C	V _F	1.05 1.25	1.50 1.70	V
Maximum reverse current @ rated VR T_J =25 $^{\circ}$ C T_J =125 $^{\circ}$ C	I _R	5 150		μΑ
Maximum reverse recovery time (Note 2)	Trr	50	75	ns
Typical junction capacitance (Note 2)	Cj	27	15	pF
Typical thermal resistance	$R_{ heta jA}$	50		°C/W
Operating junction temperature range	T _J	- 55 to +175		οС
Storage temperature range	T _{STG}	- 55 to +175		οС

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.



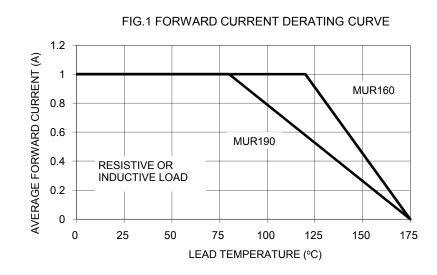
ORDERING	ORDERING INFORMATION					
PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING	
	QUALIFIED		CODE			
MUDANO		A0		DO-15	1,500 / Ammo box	
MUR1x0 (Note 1)	Prefix "H"	R0	Suffix "G"	DO-15	3,500 / 13" Paper reel	
(11010-1)		B0		DO-15	1,000 / Bulk packing	

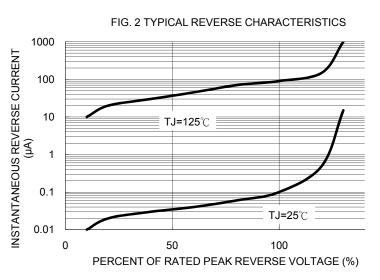
Note 1: "x" defines voltage from 600V (MUR160) to 900V (MUR190)

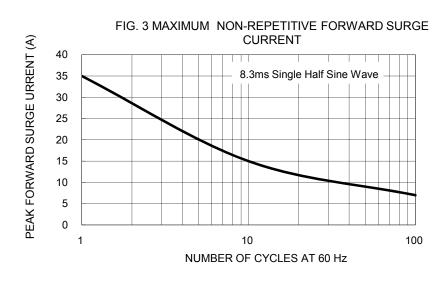
EXAMPLE						
PREFERRED P/N	[PART NO.]	AEC-Q101	PACKING CODE	GREEN COMPOUND	DESCRIPTION	
		QUALIFIED		CODE	DESCRIPTION	
MUR160 A0	MUR160		A0			
MUR160 A0G	MUR160		A0	G	Green compound	
MUR160HA0	MUR160	Н	A0		AEC-Q101 qualified	

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)







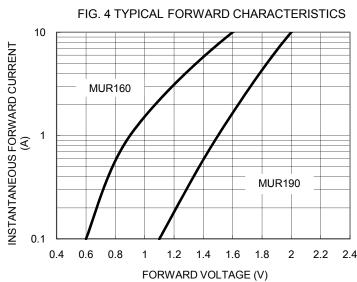






FIG. 5 TYPICAL JUNCTION CAPACITANCE

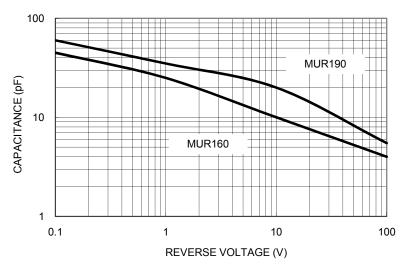
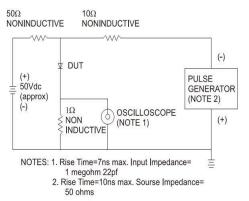
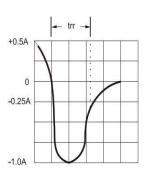
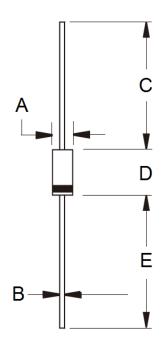


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





PACKAGE OUTLINE DIMENSIONS



DIM.	Unit (mm)		Unit (inch)		
	Min	Max	Min	Max	
Α	2.60	3.60	0.102	0.142	
В	0.70	0.90	0.028	0.035	
С	25.40	-	1.000	-	
D	5.80	7.60	0.228	0.299	
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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