



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)



DO-204AC	(DO-1	l 5)
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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise 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		μA	
Maximum reverse recovery time (Note 2)	Trr	50	75	ns	
Typical junction capacitance (Note 2)	Cj	27	15	pF	
Typical thermal resistance	$R_{ heta j A}$	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 µs, 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.



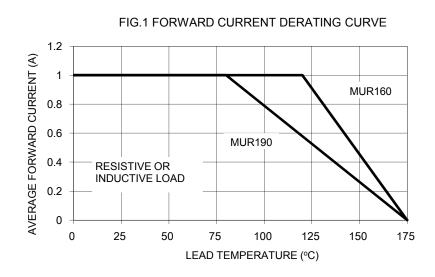
ORDERING INFORMATION					
PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING
	QUALIFIED		CODE		
MUDAGO		A0		DO-15	1,500 / Ammo box
MUR1x0 (Note 1)	Prefix "H"	R0	Suffix "G"	DO-15	3,500 / 13" Paper reel
(14010-1)		В0		DO-15	1,000 / Bulk packing

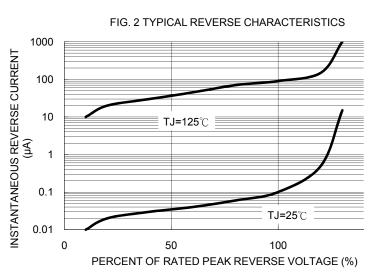
Note 1: "x" defines voltage from 600V (MUR160) to 900V (MUR190)

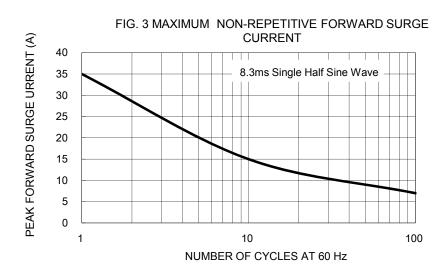
EXAMPLE					
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
MUR160 A0	MUR160		A0		
MUR160 A0G	MUR160		A0	G	Green compound
MUR160HA0	MUR160	Н	A0		AEC-Q101 qualified

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)







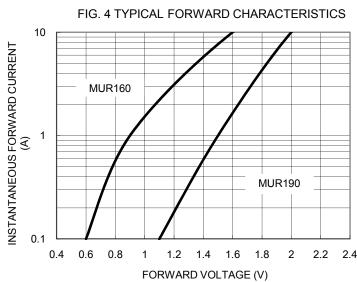




FIG. 5 TYPICAL JUNCTION CAPACITANCE

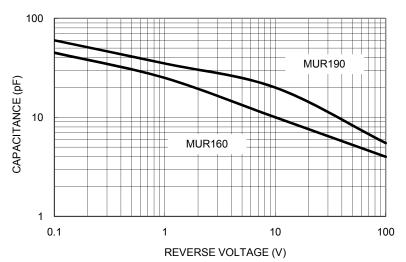
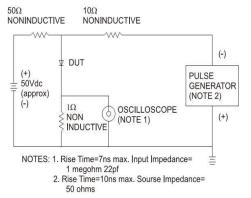
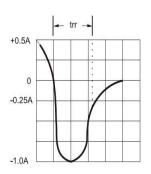
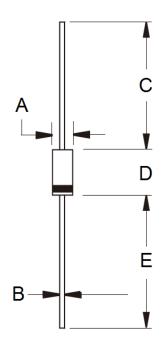


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





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

Factory Code

Document Number: DS_D1405015





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AMEYA360 Components Supply Platform

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Website:

Welcome to visit www.ameya360.com

Contact Us:

Address:

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd Minhang District, Shanghai , China

> Sales:

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

Customer Service :

Email service@ameya360.com

> Partnership:

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com