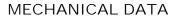




Ultrafast Glass Passivated Rectifiers

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



Case: DO-201AD DO-2

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: 1.2 g (approximately)



MAXIMUM RATINGS AND ELECTRICAL CHAP	RACTERSTIC	CS (T _A =25°C uı	nless otherwise	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		28	V
Maximum reverse current @ rated VR T_J =25 $^{\circ}$ C T_J =125 $^{\circ}$ C	I _R	5 150	10 250		μA
Maximum reverse recovery time (Note 2)	Trr	25	50		ns
Typical junction capacitance (Note 3)	Cj	65		pF	
Typical thermal resistance	$R_{\theta jA}$	28		°C/W	
Operating junction temperature range	T _J	- 55 to +150		оС	
Storage temperature range	T _{STG}	- 55 to +150		οС	
Note 1: Pulse Test with PW-300us 1% Duty Cycle	STG		- 55 10 + 150		1 '

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.



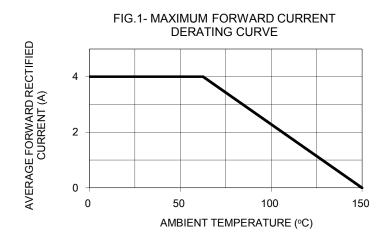
ORDERING INFORMATION					
PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING
	QUALIFIED		CODE		
MUR4x0 (Note 1) Prefix "H"		A0		DO-201AD	500 / Ammo box
	R0	Suffix "G"	DO-201AD	1,250 / 13" Paper reel	
	FIGUX 11	В0	Sullix G	DO-201AD	500 / Bulk packing
		X0		DO-201AD	Forming

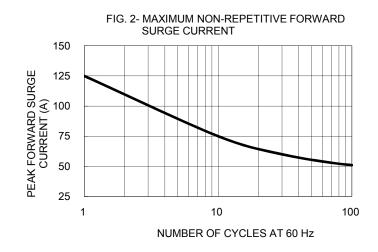
Note 1: "x" defines voltage from 200V (MUR420) to 600V (MUR460)

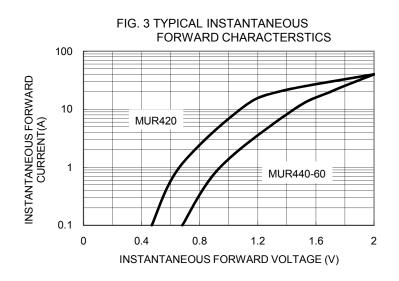
EXAMPLE						
PREFERRED P/N	PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	DESCRIPTION	
		QUALIFIED	TACKING CODE	CODE		
MUR460 A0	MUR460		A0			
MUR460 A0G	MUR460		A0	G	Green compound	
MUR460HA0	MUR460	Н	A0		AEC-Q101 qualified	

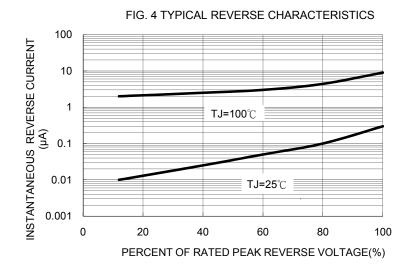
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)











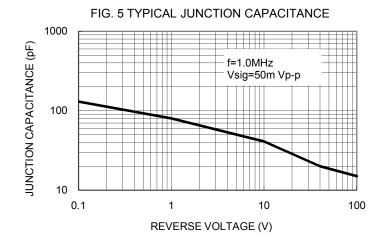
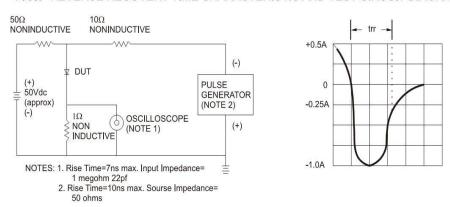
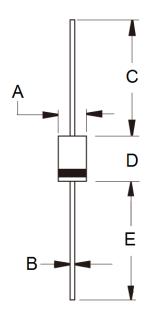


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



PACKAGE OUTLINE DIMENSIONS

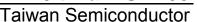


DIM.	Unit	(mm)	Unit (inch)		
	Min	Max	Min	Max	
Α	5.00	5.60	0.197	0.220	
В	1.20	1.30	0.048	0.052	
С	25.40	-	1.000	-	
D	8.50	9.50	0.335	0.375	
Е	25.40	_	1.000	_	

MARKING DIAGRAM



P/N = Specific Device Code
G = Green Compound
YWW = Date Code
F = Factory Code





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