

2A, 600V Glass Passivated High Efficient Rectifier

FEATURES

- Glass passivated chip junction
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21

APPLICATIONS

- · High frequency rectification
- Freewheeling application
- Switching mode converters and inverters in computer, automotive and telecommunication

MECH	AI F	

- Case: DO-204AC (DO-15)
- Molding compound meets UL 94V-0 flammability rating
- Terminal: Pure tin plated leads, solderable per J-STD-002
- Meet JESD 201 class 2 whisker test
- Polarity: As marked
- Weight: 0.4 g (approximately)

KEY PARAMETERS				
PARAMETER	VALUE	UNIT		
$I_{F(AV)}$	2	Α		
V_{RRM}	600	V		
I _{FSM}	35 A			
T _{J MAX}	175 °C			
Package	DO-204AC (DO-15)			
Configuration	Single die			





DO-204AC (DO-15)

PARAMETER	SYMBOL	MUR260	UNIT
Marking code on the device		MUR260	
Repetitive peak reverse voltage	V_{RRM}	600	V
Reverse voltage, total rms value	$V_{R(RMS)}$	420	V
Forward current	I _{F(AV)}	2	Α
Surge peak forward current, 8.3 ms single half sine-wave superimposed on rated load per diode	I _{FSM}	35	Α
Junction temperature	TJ	- 55 to +175	°C
Storage temperature	T _{STG}	- 55 to +175	°C





THERMAL PERFORMANCE					
PARAMETER	SYMBOL	TYP.	UNIT		
Junction-to-lead thermal resistance per diode	$R_{\Theta JL}$	17	°C/W		
Junction-to-ambient thermal resistance per diode	R _{OJA}	62	°C/W		
Junction-to-case thermal resistance per diode	R _{OJC}	18	°C/W		

Thermal Performance Note: Units mounted on recommended PCB (10mm x 10mm Cu pad test board)

ELECTRICAL SPECIFICATIONS (T _A = 25°C unless otherwise noted)					
PARAMETER	CONDITIONS	SYMBOL	TYP.	MAX.	UNIT
Forward voltage per diode ⁽¹⁾	I _F = 1A, T _J = 25°C	V _F	0.99	1.19	V
	I _F = 2A, T _J = 25°C		1.09	1.35	V
	I _F = 1A, T _J = 150°C		0.79	0.95	V
	I _F = 2A, T _J = 150°C		0.87	1.15	V
Reverse current @ rated V _R per diode ⁽²⁾	T _J = 25°C	l _R	-	5	μA
	T _J = 150°C		-	100	μΑ
Junction capacitance	1 MHz, V _R =4.0V	CJ	26	-	pF
Reverse recovery time	I _F =0.5A,I _R =1.0A I _{RR} =0.25A	t _{rr}	-	50	ns

Notes:

- 1. Pulse test with PW=0.3 ms
- 2. Pulse test with PW=30 ms

ERING INFORMATION		
ORDERING CODE (Note 1)	PACKAGE	PACKING
MUR260HA0G	DO-15	1,500 / Ammo box
MUR260HR0G	DO-15	3,500 / 13" Paper reel
MUR260HB0G	DO-15	1,000 / Bulk packing
MUR260 A0G	DO-15	1,500 / Ammo box
MUR260 R0G	DO-15	3,500 / 13" Paper reel
MUR260 B0G	DO-15	1,000 / Bulk packing

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Note:

1. "H" means AEC-Q101 qualified



CHARACTERISTICS CURVES

 $(T_A = 25^{\circ}C \text{ unless otherwise noted})$

Fig.1 Forward Current Derating Curve

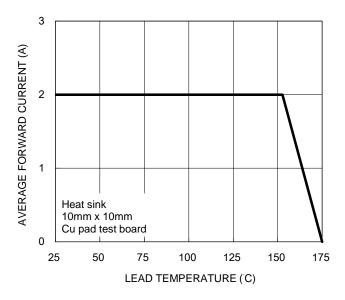


Fig.2 Typical Junction Capacitance

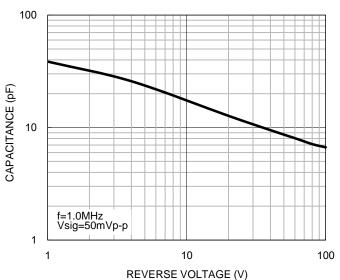


Fig.3 Typical Reverse Characteristics

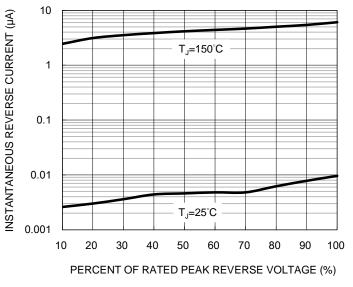
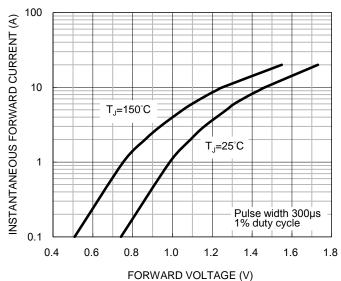


Fig.4 Typical Forward Characteristics

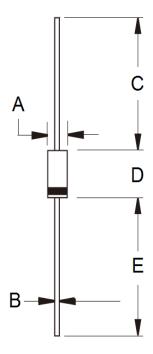


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PACKAGE OUTLINE DIMENSIONS

DO-204AC (DO-15)



DIM.	Unit (mm)		Unit (inch)		
DIW.	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	-	

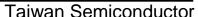
MARKING DIAGRAM



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

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