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16A, 200V - 600V Switch mode Power Rectifiers

FEATURES

- Ultrafast recovery times
- 175°C operating junction temperature
- Popular TO-220AB Package
- High temperature glass passivated junction
- High voltage capability to 600 volts
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21







MECHANICAL DATA

Case: TO-220AB

Molding compound, UL flammability classification rating 94V-0

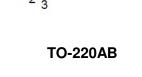
Part no. with suffix "H" means AEC-Q101 qualified

Packing code with suffix "G" means green compound (halogen-free) **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test

Polarity: As marked

Mounting torque: 0.56 Nm max. **Weight:** 1.82 g (approximately)



MAXIMUM RATINGS AND ELEC	I NICAL CH	INACIERI	31103 (1 _A =2		i wise rioled)	T
PARAMETER		SYMBOL	MUR	MUR	MUR	UNIT
			1620CT	1640CT	1660CT	
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)}	16			Α
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load		I _{FSM}	100			А
Maximum instantaneous forward voltage @ 8 A (Note 1)	T _J =25°C T _J =150°C	V _F	0.975 0.895	1.3 1.1	1.5 1.2	V
Maximum reverse current @ rated V _□	T _J =25°C T _J =125°C	I _R	5 250	10 500		μA
Maximum reverse recovery time (Note 2)		t _{rr}	25	50		ns
Typical thermal resistance		$R_{ heta JC}$	3	2		°C/W
Operating junction temperature range		T_J	- 55 to +175			°C
Storage temperature range		T _{STG}	- 55 to +175			°C

Note 1: Pulse test with PW=300 μ s, 1% duty cycle Note 2: Test conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A.



ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX ^(*)	PACKAGE	PACKING
MUR16x0CT (Note 1)	Н	C0	G	TO-220AB	50 / Tube

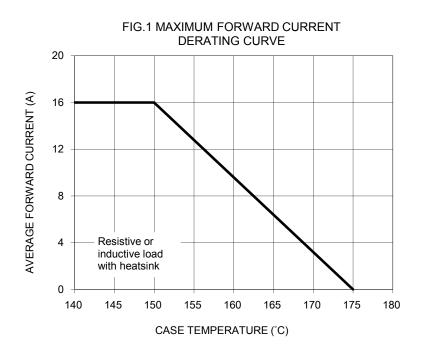
Note 1: "x" defines voltage from 200V (MUR1620CT) to 600V (MUR1660CT)

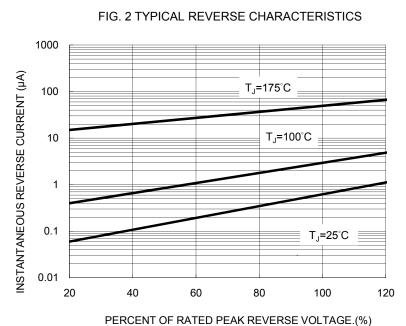
^{*:} Optional available

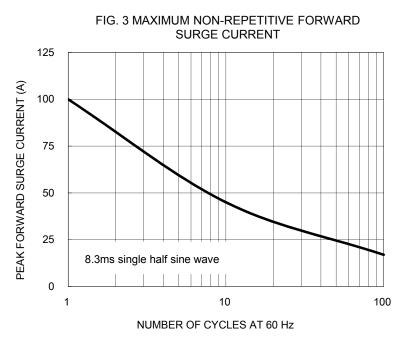
EXAMPLE						
PART NO.		PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION	
MUR1660CTHC0G	MUR1660CT	П	CO	G	AEC-Q101 qualified Green compound	

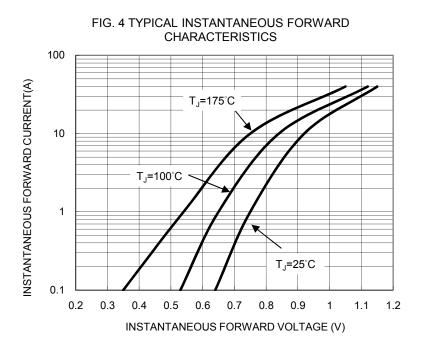
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)









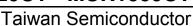




FIG. 5 TYPICAL JUNCTION CAPACITANCE

1000

(d)

1000

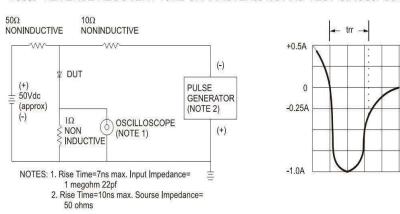
f=1.0MHz
Vslg=50mVp-p

10

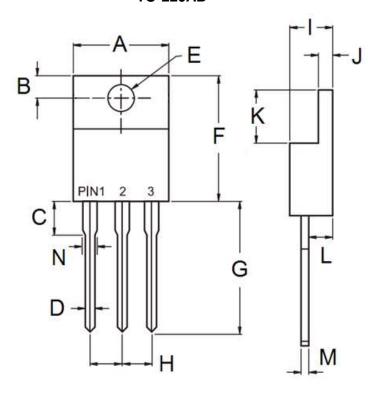
1 10 100

REVERSE VOLTAGE (V)

FIG.6 REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



PACKAGE OUTLINE DIMENSIONS TO-220AB



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min	Max	Min	Max	
Α	-	10.50	-	0.413	
В	2.62	3.44	0.103	0.135	
С	2.80	4.20	0.110	0.165	
D	0.68	0.94	0.027	0.037	
E	3.54	4.00	0.139	0.157	
F	14.60	16.00	0.575	0.630	
G	13.19	14.79	0.519	0.582	
Н	2.41	2.67	0.095	0.105	
I	4.42	4.76	0.174	0.187	
J	1.14	1.40	0.045	0.055	
K	5.84	6.86	0.230	0.270	
L	2.20	2.80	0.087	0.110	
М	0.35	0.64	0.014	0.025	
N	1.14	1.77	0.045	0.070	

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YWW = Date Code

F = Factory Code



Taiwan Semiconductor

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