



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

FEATURES

- Ultrafast recovery times
- Popular ITO-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







ITO-220AB

MECHANICAL DATA

Case: ITO-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)

PIN 1 0	PIN 2
PIN 3 O-	CASE

MAXIMUM RATINGS AND ELECTRICAL CH	HARACTER	RISTICS (T _A =2	25°C unless oth	erwise noted)	
PARAMETER	SYMBOL	MURF	MURF	MURF	UNIT
PARAIVIETER		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 T _J =25°C	V_{F}	0.975	1.300	1.500	V
@ 8A (Note 1) T _J =125°C	V _F	0.895	1.100	1.200	7 °
Maximum reverse current @ rated V _R	1	5	1	10	
T _J =125°C	I _R	250	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	TJ	- 55 to +150		°C	
Storage temperature range	T _{STG}	- 55 to +150		°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. SUFFIX	PACKING	PACKING CODE	PACKAGE	PACKING	
	SUFFIX	CODE	SUFFIX (*)	PACKAGE	PACKING
MURF16xxCT (Note 1)	Н	C0	G	ITO-220AB	50 / Tube

Note 1: "x" defines voltage from 200V (MURF1620CT) to 600V (MURF1660CT)

^{*:} Optional available

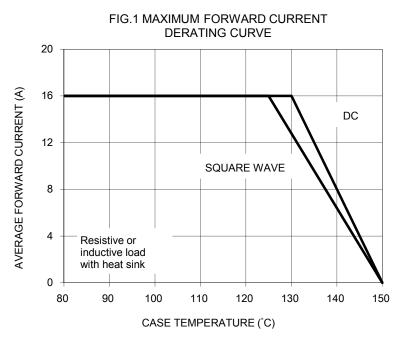
EXAMPLE					
EXAMPLE P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
MURF1660CTHC0G	MURF1660CT	Н	C0	G	AEC-Q101 qualified Green compound

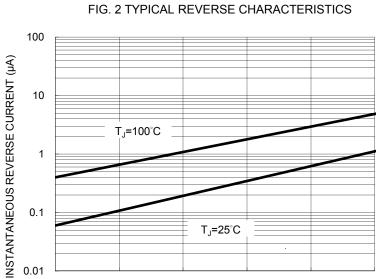
20

40

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)





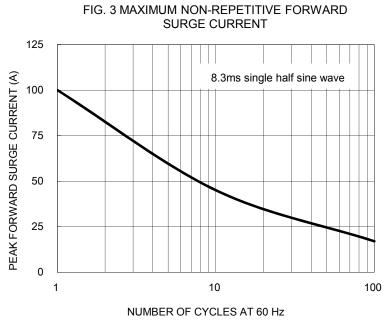
60

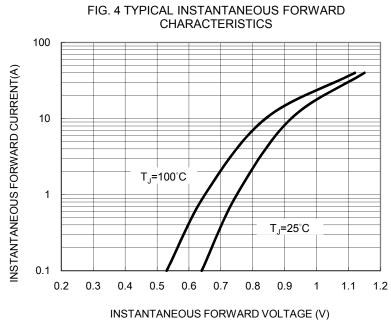
80

PERCENT OF RATED PEAK REVERSE VOLTAGE.(%)

100

120





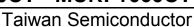




FIG. 5 TYPICAL JUNCTION CAPACITANCE

1000

1000

f=1.0MHz
Vsig=50mVp-p

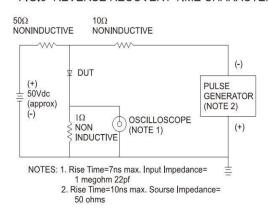
100

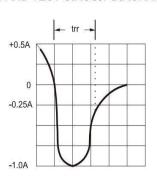
100

100

REVERSE VOLTAGE (V)

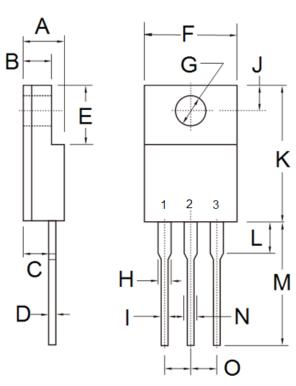
FIG.6 REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





PACKAGE OUTLINE DIMENSIONS

ITO-220AB



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min Max		Min	Max	
Α	4.30	4.70	0.169	0.185	
В	2.50	3.16	0.098	0.124	
С	2.30	2.96	0.091	0.117	
D	0.46	0.76	0.018	0.030	
Е	6.30	6.90	0.248	0.272	
F	9.60	10.30	0.378	0.406	
G	3.00	3.40	0.118	0.134	
Н	0.95	1.45	0.037	0.057	
I	0.50	0.90	0.020	0.035	
J	2.40	3.20	0.094	0.126	
K	14.80	15.50	0.583	0.610	
L	-	4.10	-	0.161	
М	12.60	13.80	0.496	0.543	
N	-	1.80	-	0.071	
0	2.41	2.67	0.095	0.105	

MARKING DIAGRAM



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

F = Factory Code

MURF1620CT - MURF1660CT



Taiwan Semiconductor

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