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

FEATURES

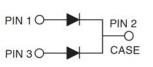
- Ultrafast recovery times
- Popular ITO-220AB Package
- High temperature glass passivated junction
- High voltage capability to 600 volts
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21











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)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)						
PARAMETER		SYMBOL	MURF	MURF	MURF	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			Α
Maximum instantaneous forward voltage T _J =25°C		V _F	0.975	1.300	1.500	V
@ 8A (Note 1)	T _J =125°C	VF	0.895	1.100	1.200	
Maximum reverse current @ rated V _B	T _J =25°C		5	10 500		μA
Maximum reverse current @ rated v _R	T _J =125°C	I _R	250			
Maximum reverse recovery time (Note 2)		t _{rr}	25	50		ns
Typical thermal resistance		$R_{ extsf{ heta}JC}$	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=300µs, 1% duty cycle

Note 2: Test conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A.



MURF1620CT - MURF1660CT

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ORDERING INFORMATION

PART NO.	PART NO.	PACKING	PACKING CODE	PACKAGE	PACKING	
	SUFFIX	CODE	SUFFIX ^(*)	PACKAGE		
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	CO	G	AEC-Q101 qualified Green compound	

100

10

1

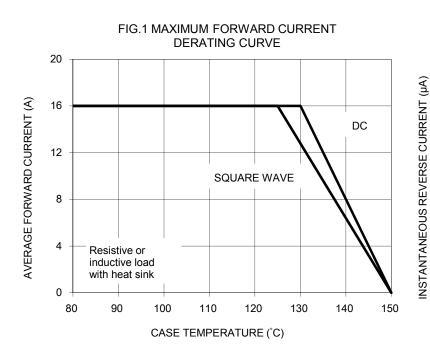
0.1

0.01

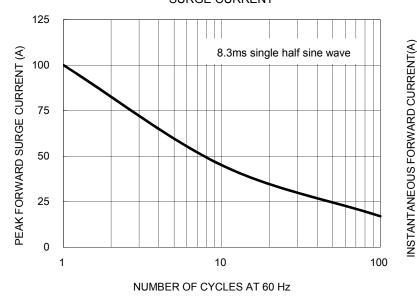
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RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)









PERCENT OF RATED PEAK REVERSE VOLTAGE.(%)

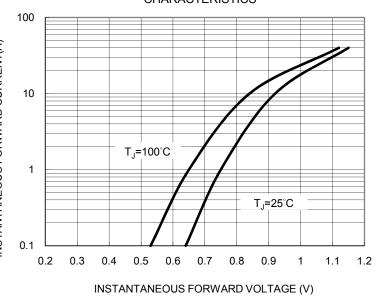
T_J=25°C

80

100

120

60





T_=100°C

40

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FIG. 5 TYPICAL JUNCTION CAPACITANCE

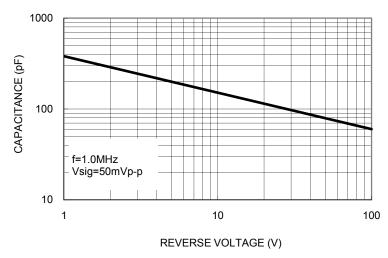
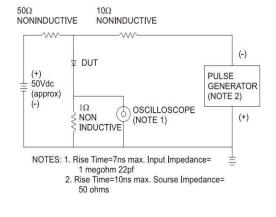
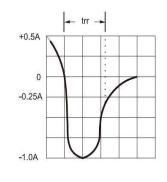
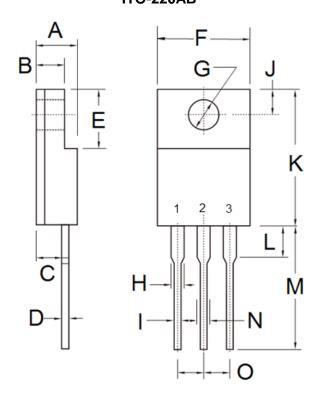


FIG.6 REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





PACKAGE OUTLINE DIMENSIONS ITO-220AB



P/N

G

F

DIM.	Unit	(mm)	Unit (inch)		
DIW.	Min	Max	Min	Max	
А	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	
Ν	-	1.80	-	0.071	
0	2.41	2.67	0.095	0.105	

MARKING DIAGRAM



- = Specific Device Code
- = Green Compound
- YWW = Date Code
 - = Factory Code



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