

THERMAL PERFORMANCE				
PARAMETER		SYMBOL	TYP	UNIT
Junction-to-case thermal resistance	MURF1620CT	$R_{\theta JC}$	3	°C/W
	MURF1640CT		2	°C/W
	MURF1660CT			

ELECTRICAL SPECIFICATIONS ($T_A = 25^\circ\text{C}$ unless otherwise noted)						
PARAMETER		CONDITIONS	SYMBOL	TYP	MAX	UNIT
Forward voltage per diode ⁽¹⁾	MURF1620CT	$I_F = 8\text{A}, T_J = 25^\circ\text{C}$	V_F	-	0.975	V
	MURF1640CT			-	1.300	V
	MURF1660CT			-	1.500	V
	MURF1620CT	$I_F = 8\text{A}, T_J = 125^\circ\text{C}$		-	0.895	V
	MURF1640CT			-	1.100	V
	MURF1660CT			-	1.200	V
Reverse current @ rated V_R per diode ⁽²⁾	MURF1620CT	$T_J = 25^\circ\text{C}$	I_R	-	5	μA
	MURF1640CT			-	10	μA
	MURF1660CT			-	250	μA
	MURF1620CT	$T_J = 125^\circ\text{C}$		-	500	μA
	MURF1640CT			-		
	MURF1660CT			-		
Reverse recovery time	MURF1620CT	$I_F = 0.5\text{A}, I_R = 1.0\text{A}$ $I_{rr} = 0.25\text{A}$	t_{rr}	-	25	ns
	MURF1640CT			-	50	ns
	MURF1660CT			-		

Notes:

1. Pulse test with $PW = 0.3\text{ms}$
2. Pulse test with $PW = 30\text{ms}$

ORDERING INFORMATION		
ORDERING CODE ⁽¹⁾⁽²⁾	PACKAGE	PACKING
MURF16xCT	ITO-220AB	50 / Tube
MURF16xCTH	ITO-220AB	50 / Tube

Notes:

1. "x" defines voltage from 200V(MURF1620CT) to 600V(MURF1660CT)
2. "H" means AEC-Q101 qualified

CHARACTERISTICS CURVES

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

Fig.1 Forward Current Derating Curve

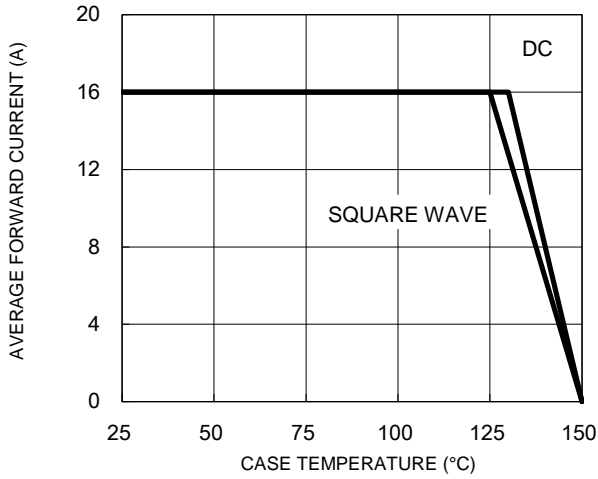


Fig.2 Typical Junction Capacitance

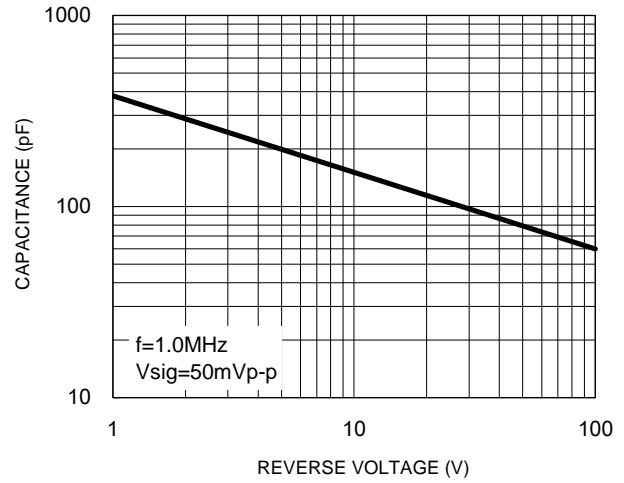


Fig.3 Typical Reverse Characteristics

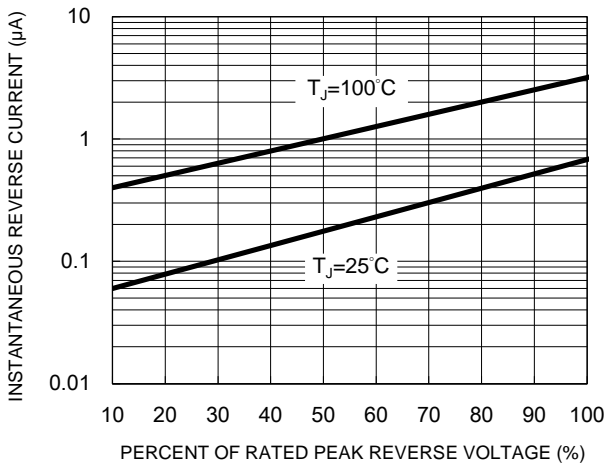


Fig.4 Typical Forward Characteristics

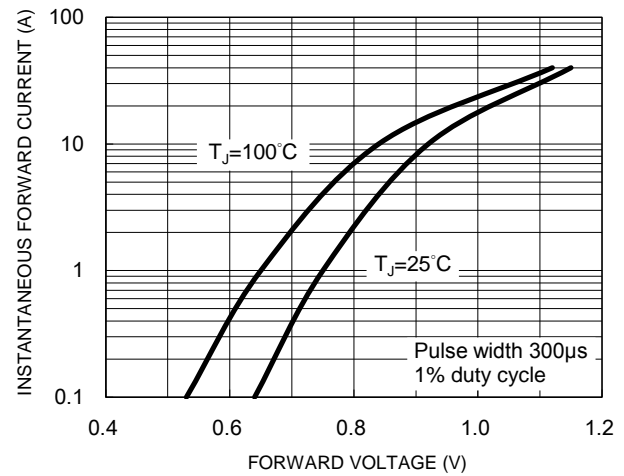
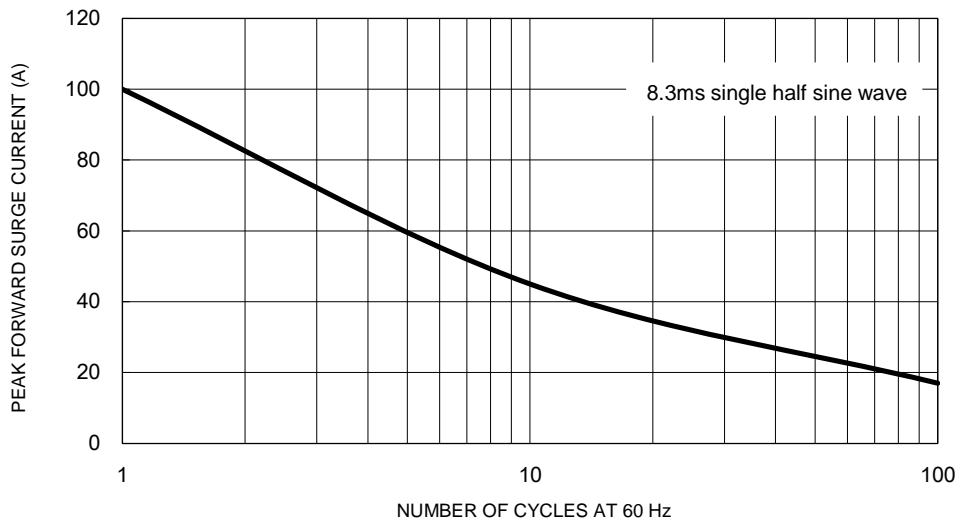


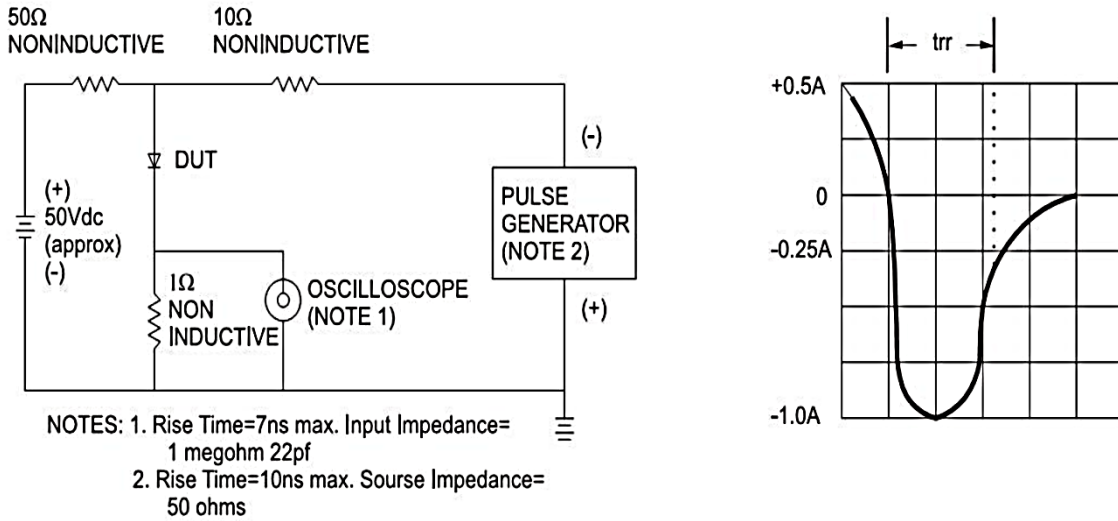
Fig.5 Maximum Non-Repetitive Forward Surge Current



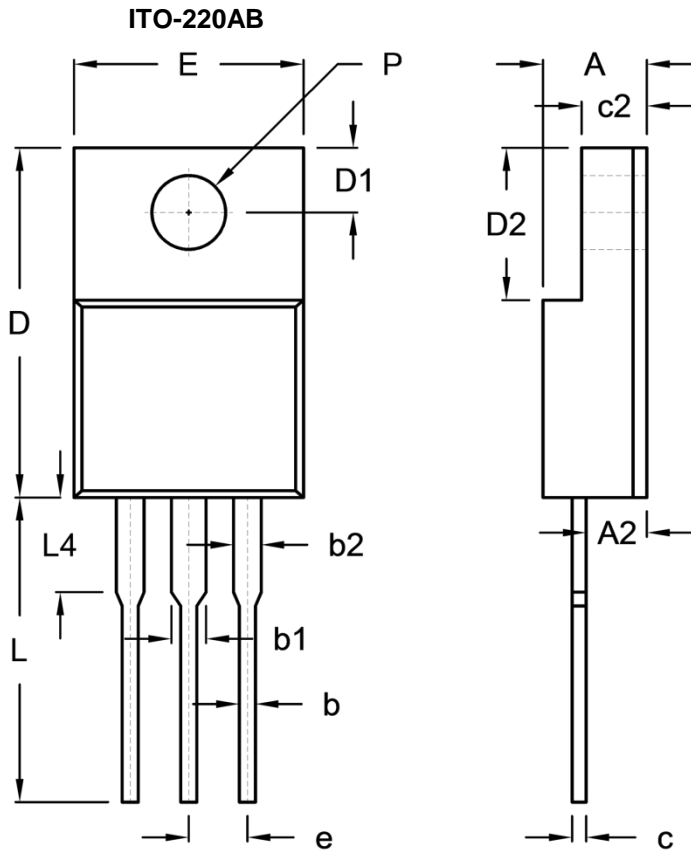
CHARACTERISTICS CURVES

($T_A = 25^\circ\text{C}$ 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.
A	4.30	4.70	0.169	0.185
A2	2.30	2.96	0.091	0.117
b	0.50	0.90	0.020	0.035
b1	-	1.80	-	0.071
b2	0.95	1.45	0.037	0.057
c	0.46	0.76	0.018	0.030
c2	2.50	3.16	0.098	0.124
D	14.80	15.50	0.583	0.610
D1	2.40	3.20	0.094	0.126
D2	6.30	6.90	0.248	0.272
E	9.60	10.30	0.378	0.406
e	2.41	2.67	0.095	0.105
L	12.60	13.80	0.496	0.543
L4	-	4.10	-	0.161
P	3.00	3.40	0.118	0.134

MARKING DIAGRAM



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

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