THERMAL PERFORMANCE				
PARAMETER		**SYMBOL**	**TYP**	**UNIT**
Junction-to-case thermal resistance	SRF1020 SRF1030 SRF1040 SRF1050 SRF1060	$R_{\Theta JC}$	3.5	°C/W
	SRF1090 SRF10100 SRF10150 SRF10200		4.0	°C/W

ELECTRICAL SPECIFICATIONS (T_A = 25°C unless otherwise noted)						
PARAMETER		**CONDITIONS**	**SYMBOL**	**TYP**	**MAX**	**UNIT**
Forward voltage per diode[1]	SRF1020 SRF1030 SRF1040	I_F = 5A,T_J = 25°C	V_F	-	0.55	V
	SRF1050 SRF1060			-	0.70	V
	SRF1090 SRF10100			-	0.90	V
	SRF10150 SRF10200			-	1.00	V
Reverse current @ rated V_R per diode[2]	SRF1020 SRF1030 SRF1040 SRF1050 SRF1060	T_J = 25°C	I_R	-	500	µA
	SRF1090 SRF10100 SRF10150 SRF10200			-	100	µA
Reverse current @ rated V_R per diode[2]	SRF1020 SRF1030 SRF1040	T_J = 100°C	I_R	-	15	mA
	SRF1050 SRF1060			-	10	mA
	SRF1090 SRF10100 SRF10150 SRF10200			-	-	mA

ELECTRICAL SPECIFICATIONS (T_A = 25°C unless otherwise noted)						
PARAMETER		**CONDITIONS**	**SYMBOL**	**TYP**	**MAX**	**UNIT**
Reverse current @ rated V_R per diode [2]	SRF1020 SRF1030 SRF1040 SRF1050 SRF1060	T_J = 125°C	I_R	-	-	mA
	SRF1090 SRF10100 SRF10150 SRF10200			-	5	mA

Notes:

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

ORDERING INFORMATION		
ORDERING CODE[1][2]	**PACKAGE**	**PACKING**
SRF10x	ITO-220AB	50 / Tube
SRF10xH	ITO-220AB	50 / Tube

Notes:

1. "x" defines voltage from 20V(SRF1020) to 200V(SRF10200)
2. "H" means AEC-Q101 qualified

CHARACTERISTICS CURVES

(T_A = 25°C unless otherwise noted)

Fig.1 Forward Current Derating Curve

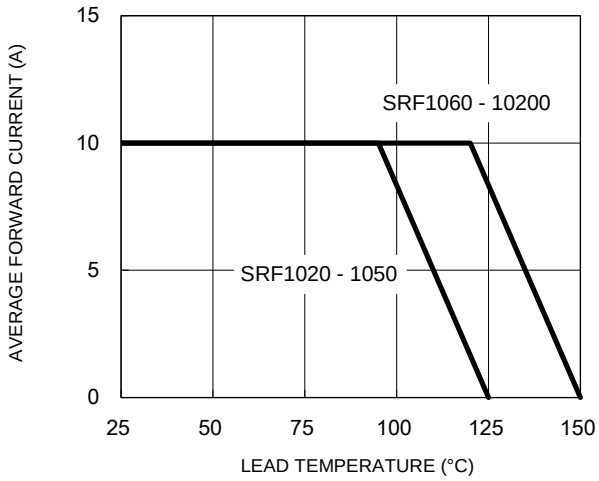


Fig.2 Typical Junction Capacitance

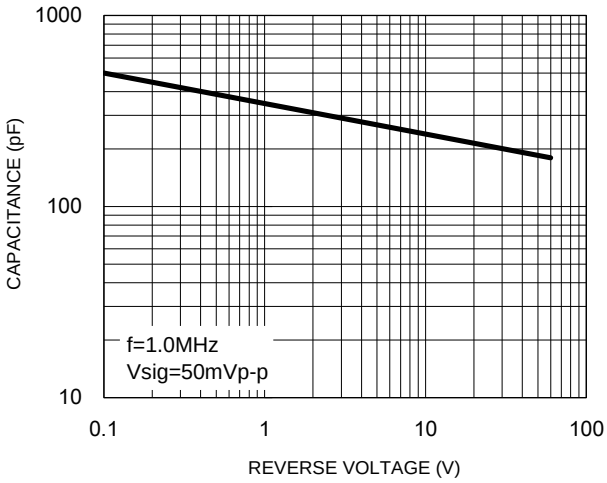


Fig.3 Typical Reverse Characteristics

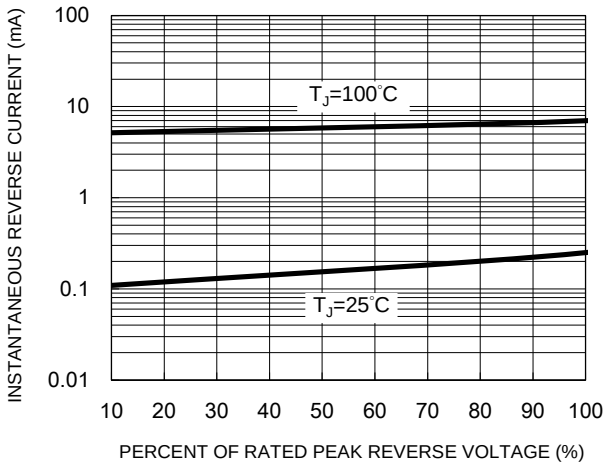


Fig.4 Typical Forward Characteristics

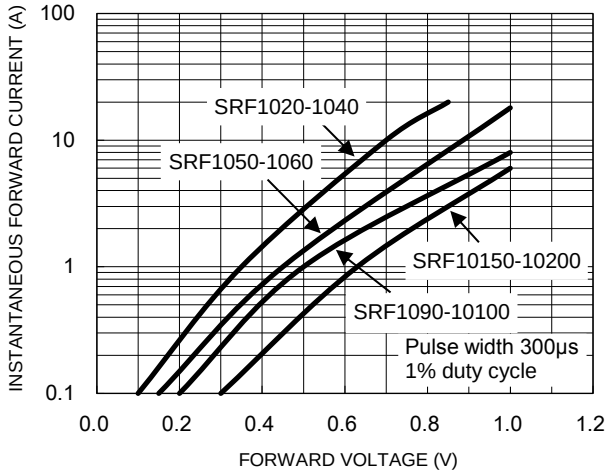
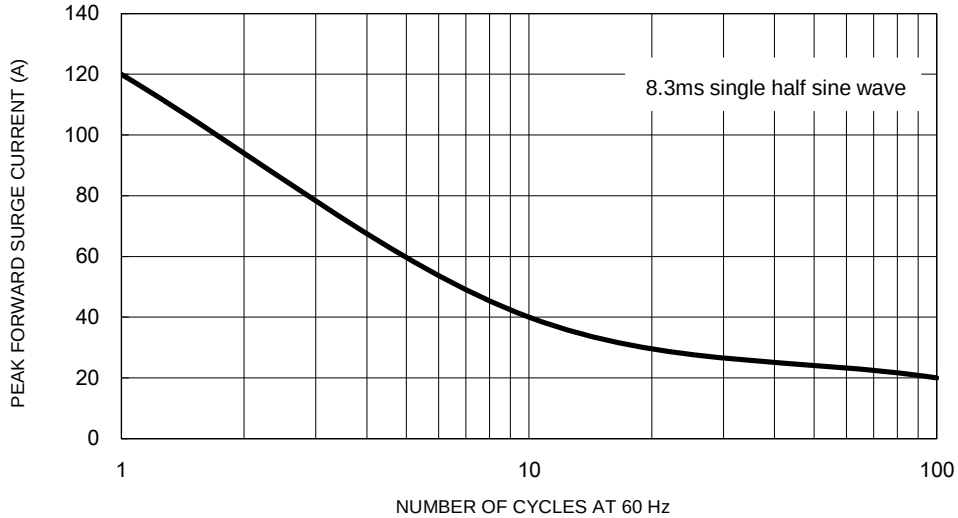


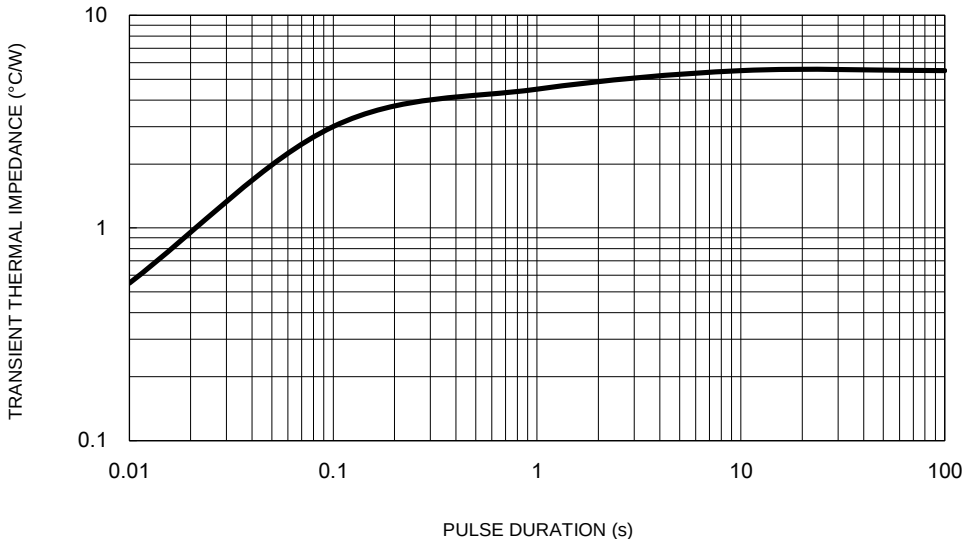
Fig.5 Maximum Non-Repetitive Forward Surge Current



CHARACTERISTICS CURVES

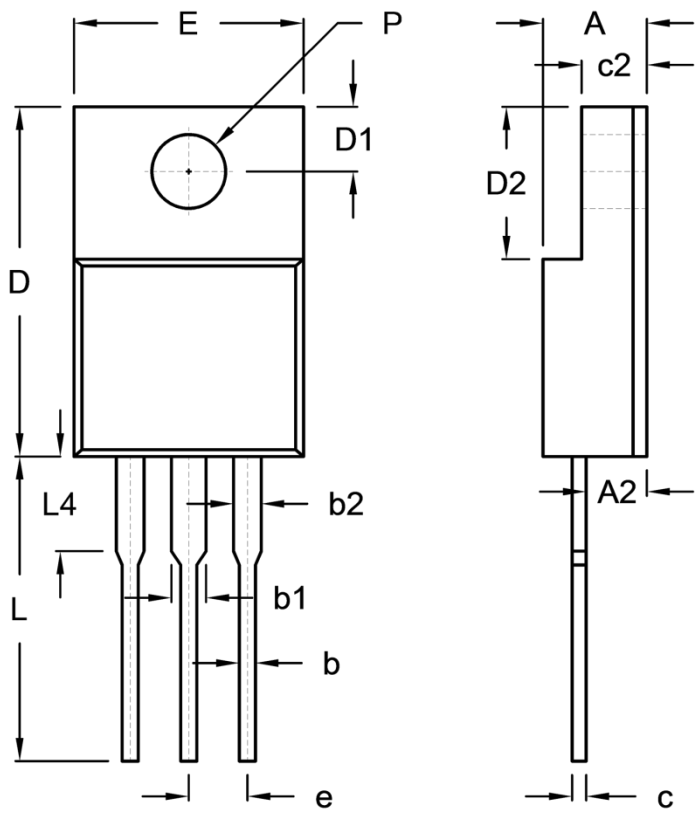
(T_A = 25°C unless otherwise noted)

Fig.6 Typical Transient Thermal Impedance



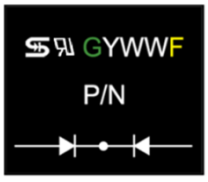
PACKAGE OUTLINE DIMENSIONS

ITO-220AB



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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