

THERMAL PERFORMANCE				
PARAMETER		SYMBOL	LIMIT	UNIT
Junction-to-case thermal resistance	SRF1020 SRF1030 SRF1040 SRF1050 SRF1060	$R_{\theta JC}$	3.5	$^{\circ}C/W$
	SRF1090 SRF10100 SRF10150 SRF10200		4	$^{\circ}C/W$

ELECTRICAL SPECIFICATIONS ($T_A = 25^{\circ}C$ unless otherwise noted)						
PARAMETER		CONDITIONS	SYMBOL	TYP	MAX	UNIT
Forward voltage per diode ⁽¹⁾	SRF1020 SRF1030 SRF1040	$I_F = 5A, T_J = 25^{\circ}C$	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	$T_J = 25^{\circ}C$	I_R	-	0.5	mA
	SRF1090 SRF10100 SRF10150 SRF10200			-	0.1	mA
Reverse current @ rated V_R per diode ⁽²⁾	SRF1020 SRF1030 SRF1040	$T_J = 100^{\circ}C$	I_R	-	15	mA
	SRF1050 SRF1060			-	10	mA
	SRF1090 SRF10100 SRF10150 SRF10200			-	-	mA

ELECTRICAL SPECIFICATIONS ($T_A = 25^\circ\text{C}$ unless otherwise noted)						
PARAMETER		CONDITIONS	SYMBOL	TYP	MAX	UNIT
Reverse current @ rated V_R per diode ⁽²⁾	SRF1020 SRF1030 SRF1040 SRF1050 SRF1060	$T_J = 125^\circ\text{C}$	I_R	-	-	mA
	SRF1090 SRF10100 SRF10150 SRF10200			-	5	mA

Notes:

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

ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
SRF10xx (Note 1)	H	C0	G	ITO-220AB	50 / Tube

Note:

1. "xx" defines voltage from 20V (SRF1020) to 200V (SRF10200)

EXAMPLE P/N					
EXAMPLE P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
SRF1020HC0G	SRF1020	H	C0	G	AEC-Q101 qualified Green compound

CHARACTERISTICS CURVES

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

Fig.1 Forward Current Derating Curve

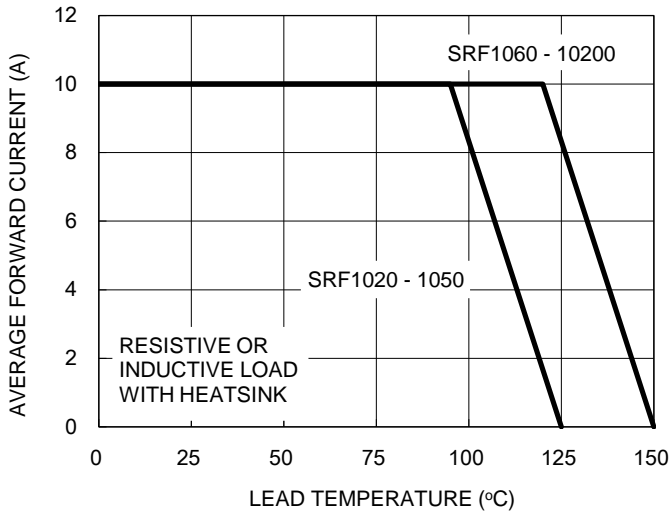


Fig.2 Typical Junction Capacitance

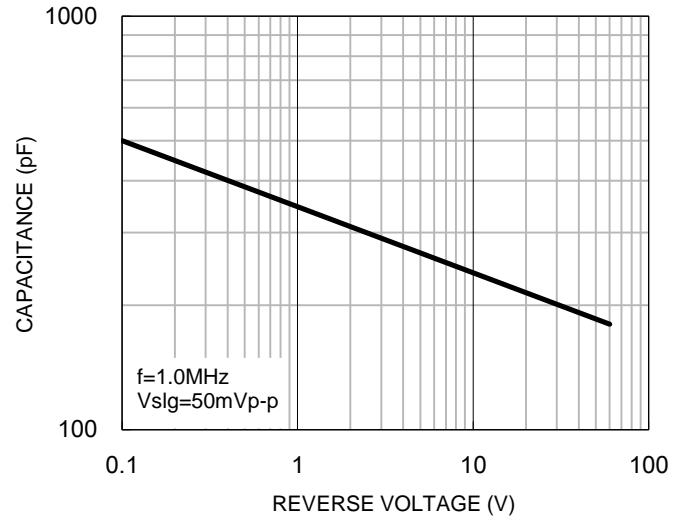


Fig.3 Typical Reverse Characteristics

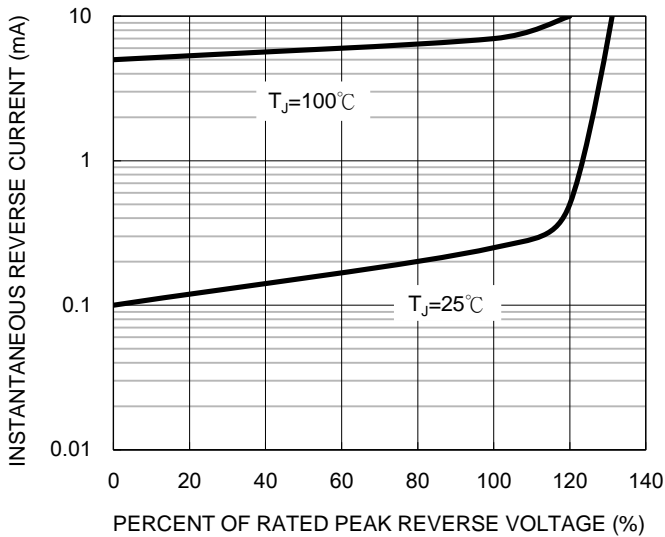
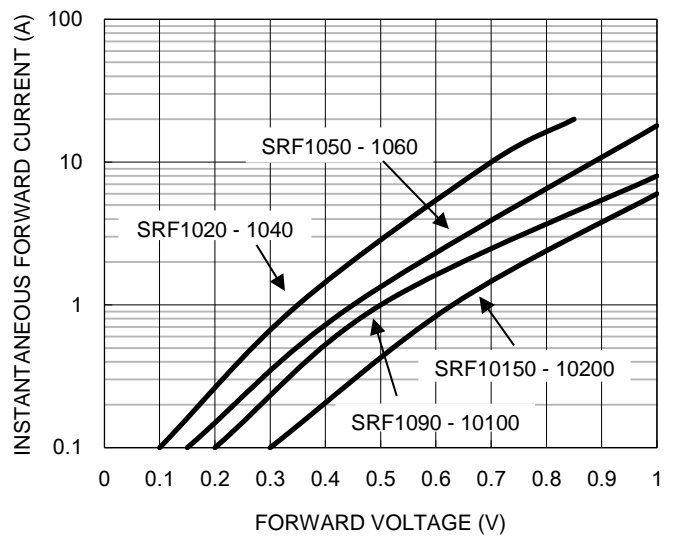


Fig.4 Typical Forward Characteristics

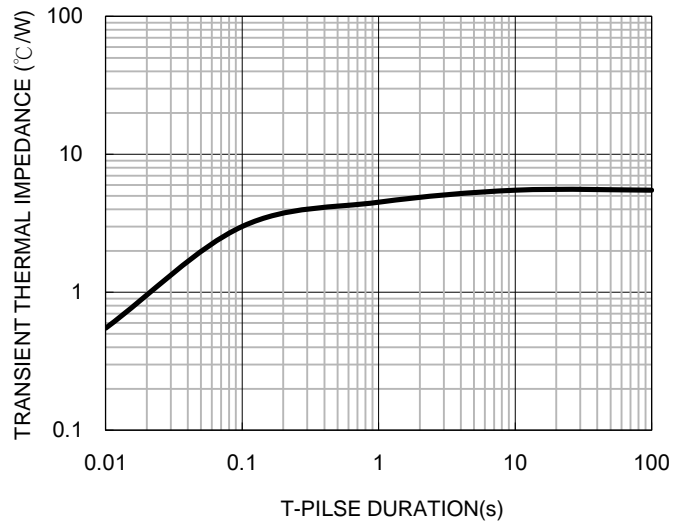
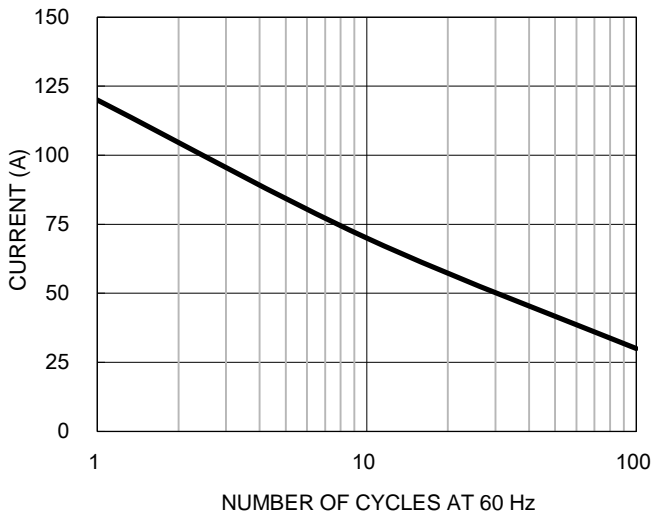


CHARACTERISTICS CURVES

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

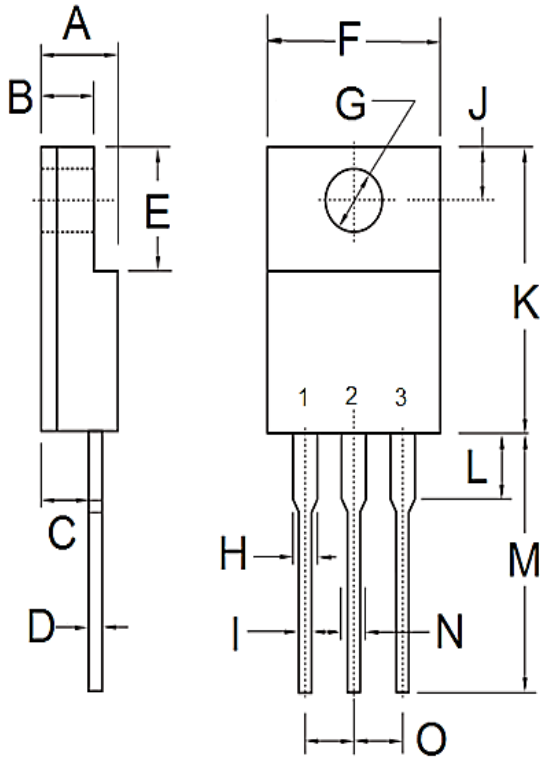
Fig.5 Maximum Non-repetitive Forward Surge Current

Fig.6 Typical Transient Thermal Characteristics



PACKAGE OUTLINE DIMENSIONS

ITO-220AB



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	4.30	4.70	0.169	0.185
B	2.50	3.16	0.098	0.124
C	2.30	2.96	0.091	0.117
D	0.46	0.76	0.018	0.030
E	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
H	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
M	12.60	13.80	0.496	0.543
N	-	1.80	-	0.071
O	2.41	2.67	0.095	0.105

MARKING DIAGRAM



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

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