

THERMAL PERFORMANCE			
PARAMETER	SYMBOL	TYP	UNIT
Junction-to-case thermal resistance	$R_{\theta JC}$	1.5	°C/W

ELECTRICAL SPECIFICATIONS ($T_A = 25^\circ\text{C}$ unless otherwise noted)						
PARAMETER		CONDITIONS	SYMBOL	TYP	MAX	UNIT
Forward voltage per diode ⁽¹⁾	SR3020PT SR3030PT SR3040PT	$I_F = 15\text{A}, T_J = 25^\circ\text{C}$	V_F	-	0.55	V
	SR3050PT SR3060PT			-	0.70	V
	SR3090PT SR30100PT			-	0.90	V
	SR30150PT			-	1.00	V
Reverse current @ rated V_R per diode ⁽²⁾	SR3020PT SR3030PT SR3040PT SR3050PT SR3060PT	$T_J = 25^\circ\text{C}$	I_R	-	1000	μA
	SR3090PT SR30100PT SR30150PT			-	500	μA
	SR3020PT SR3030PT SR3040PT	$T_J = 100^\circ\text{C}$		-	20	mA
	SR3050PT SR3060PT			-	15	mA
	SR3090PT SR30100PT SR30150PT			-	10	mA

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
SR30xPT	TO-247AD (TO-3P)	30 / Tube
SR30xPTH	TO-247AD (TO-3P)	30 / Tube

Notes:

1. "x" defines voltage from 20V(SR3020PT) to 150V(SR30150PT)
2. "H" means AEC-Q101 qualified

CHARACTERISTICS CURVES

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

Fig.1 Forward Current Derating Curve

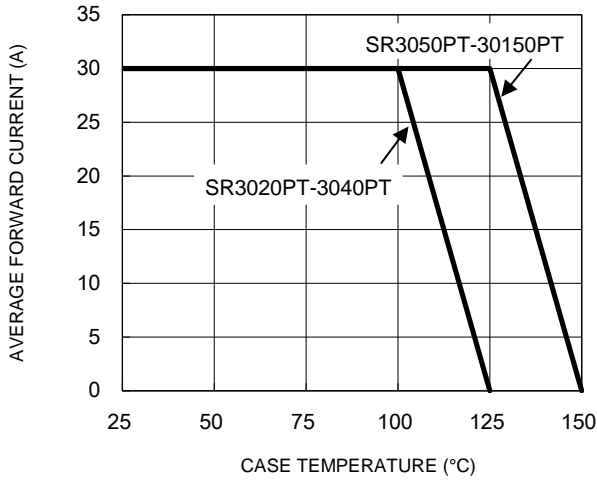


Fig.2 Typical Junction Capacitance

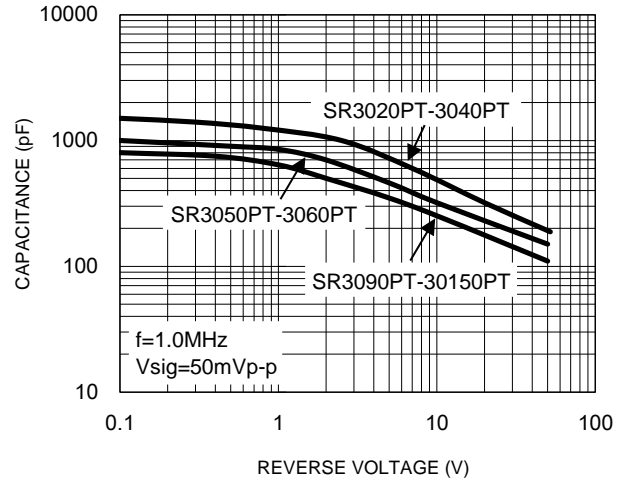


Fig.3 Typical Reverse Characteristics

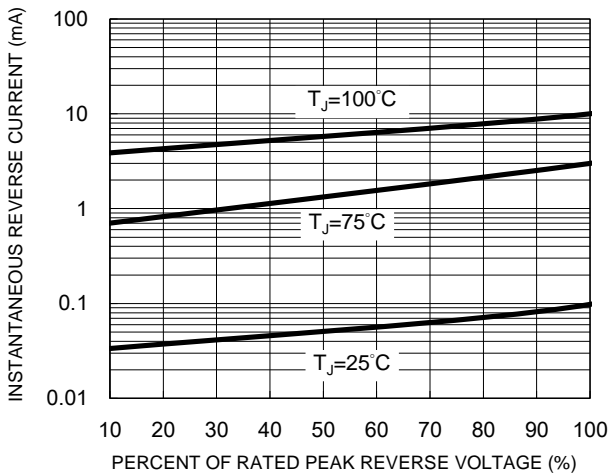


Fig.4 Typical Forward Characteristics

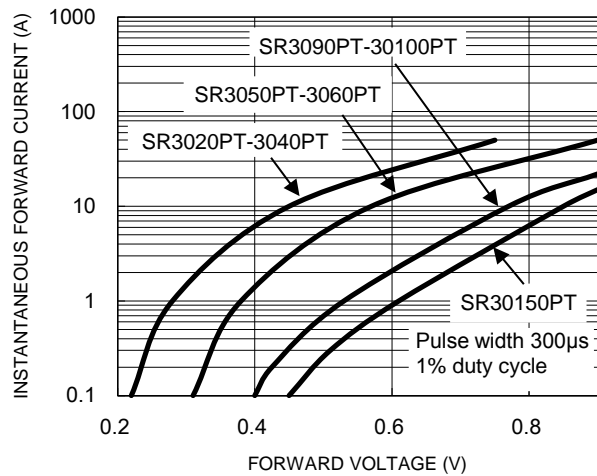
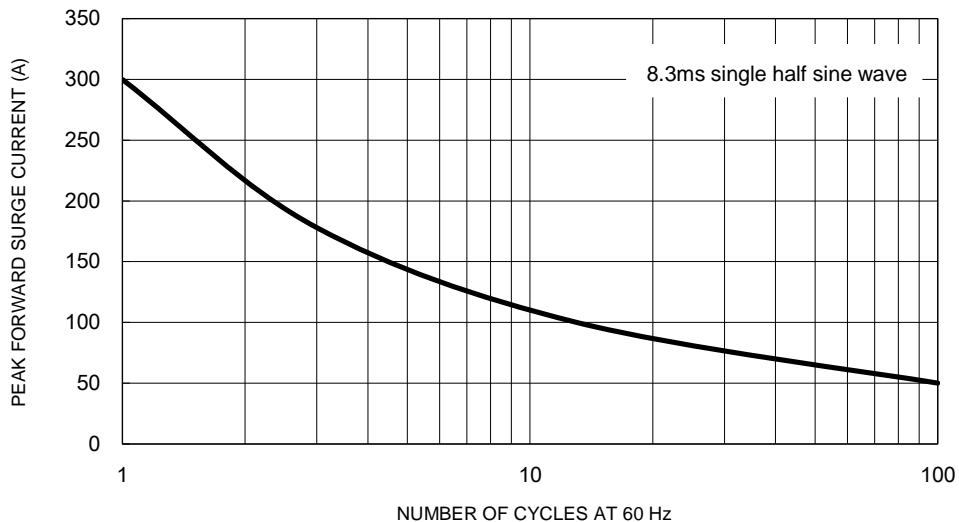


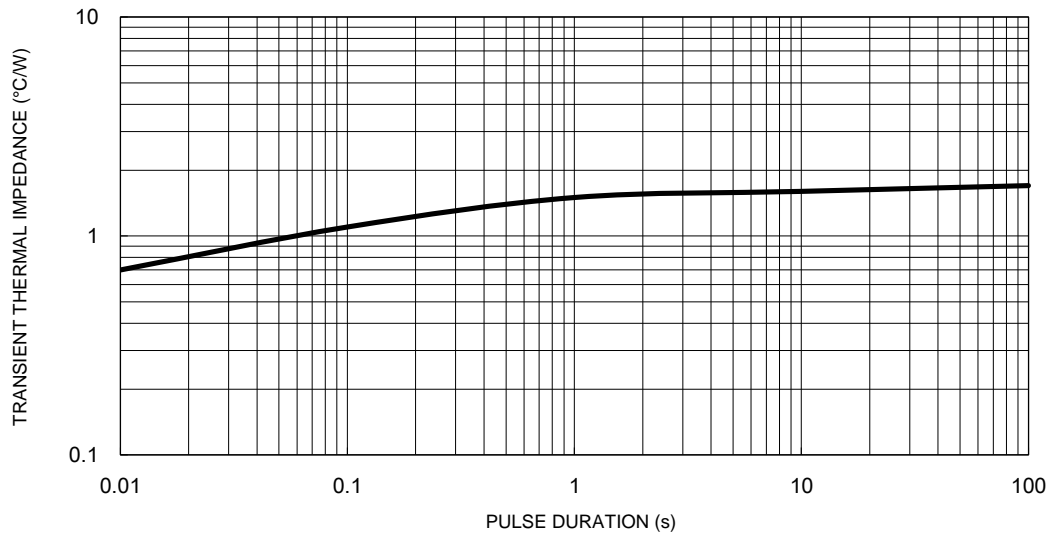
Fig.5 Maximum Non-Repetitive Forward Surge Current



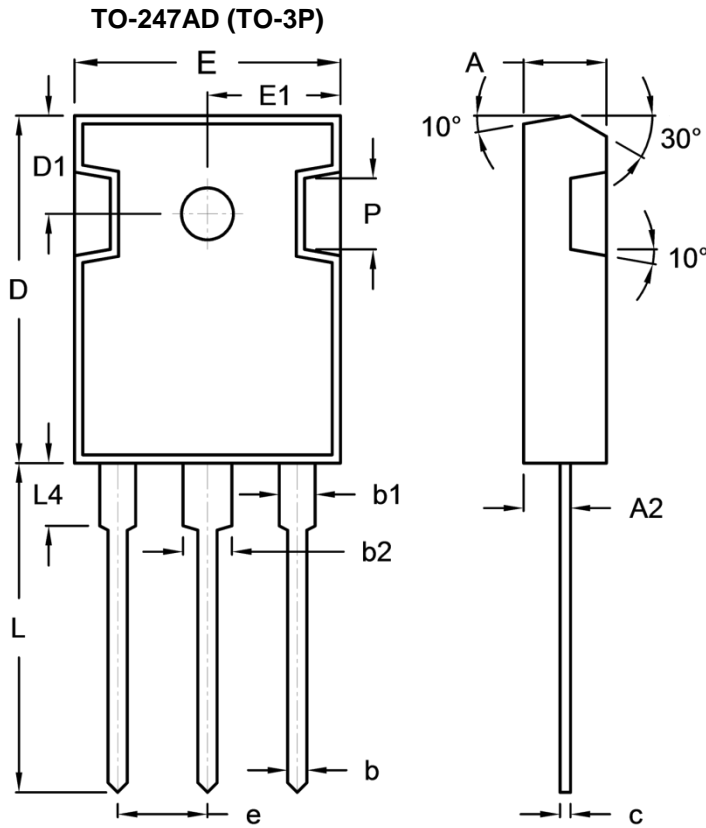
CHARACTERISTICS CURVES

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

Fig.6 Typical Transient Thermal Impedance

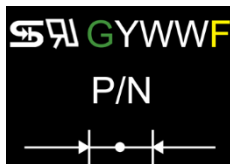


PACKAGE OUTLINE DIMENSIONS



DIM	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	4.90	5.16	0.193	0.203
A2	2.70	3.00	0.106	0.118
b	1.12	1.22	0.044	0.048
b1	1.93	2.18	0.076	0.086
b2	2.97	3.22	0.117	0.127
c	0.51	0.76	0.020	0.030
D	20.80	21.30	0.819	0.839
D1	5.70	6.20	0.224	0.244
E	15.90	16.40	0.626	0.646
E1	7.90	8.20	0.311	0.323
e	5.20	5.70	0.205	0.224
H	2.90	3.40	0.114	0.134
L	19.70	20.20	0.776	0.795
L4	3.50	4.10	0.138	0.161
P	-	4.30	-	0.169

MARKING DIAGRAM



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

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