



THERMAL PERFORMANCE					
PARAMETER	SYMBOL	TYP	UNIT		
Junction-to-ambient thermal resistance	R <sub>⊕JA</sub>	50	°C/W		
Junction-to-case thermal resistance	R <sub>eJC</sub>	15	°C/W		

PARAMETER		CONDITIONS	SYMBOL	TYP	MAX	UNIT
Forward voltage <sup>(1)</sup>	SR302 SR303 SR304	I <sub>F</sub> = 3A, T <sub>J</sub> = 25°C	V <sub>F</sub>	-	0.55	V
	SR305 SR306			-	0.70	V
	SR309 SR310			-	0.85	V
	SR315 SR320			-	0.95	V
Reverse current @ rated V <sub>R</sub> <sup>(2)</sup>	SR302 SR303 SR304 SR305 SR306	T <sub>J</sub> = 25°C	I <sub>R</sub>	-	500	μA
	SR309 SR310 SR315 SR320			-	100	μA
	SR302 SR303 SR304	T <sub>J</sub> = 100°C		-	10	mA
	SR305 SR306			-	5	mA
	SR309 SR310 SR315 SR320			-	-	mA
	SR302 SR303 SR304	T <sub>J</sub> = 125°C		-	-	mA
	SR305 SR306			-	-	mA
	SR309 SR310 SR315 SR320			-	2	mA

## Notes:

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



ORDERING INFORMATION			
ORDERING CODE(1)(2)	PACKAGE	PACKING	
SR3x	DO-201AD	1,250 / Tape & Reel	
SR3x A0G	DO-201AD	500 / Ammo box	
SR3xH	DO-201AD	1,250 / Tape & Reel	
SR3xHA0G	DO-201AD	500 / Ammo box	

#### Notes:

- 1. "x" defines voltage from 20V (SR302) to 200V (SR320)
- 2. "H" means AEC-Q101 qualified



#### **CHARACTERISTICS CURVES**

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

Fig.1 Forward Current Derating Curve

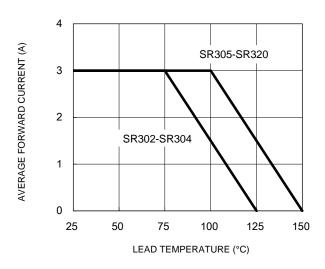


Fig.3 Typical Reverse Characteristics

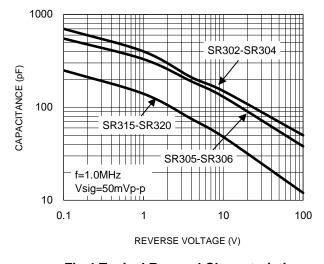
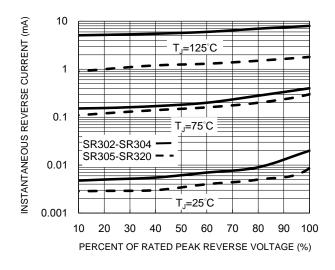


Fig.2 Typical Junction Capacitance

Fig.4 Typical Forward Characteristics



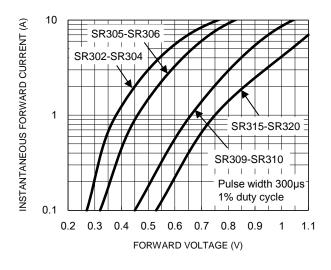
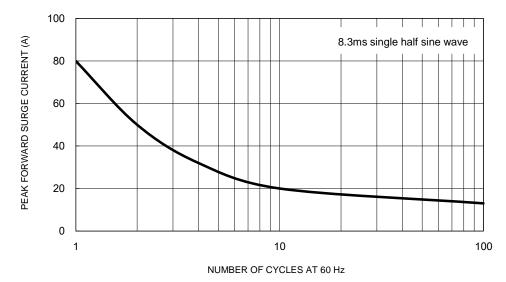


Fig.5 Maximum Non-Repetitive Forward Surge Current



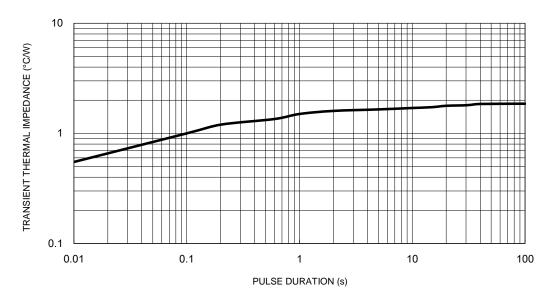
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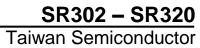


### **CHARACTERISTICS CURVES**

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

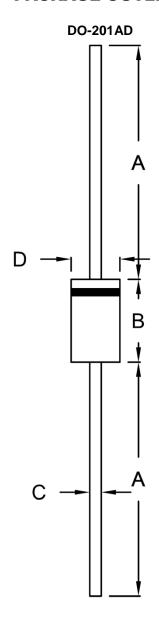
Fig.6 Typical Transient Thermal Characteristics







# **PACKAGE OUTLINE DIMENSIONS**



DIM.	Unit (mm)		Unit (inch)		
DIIVI.	Min.	Max.	Min.	Max.	
Α	25.40	-	1.000	-	
В	8.50	9.50	0.335	0.374	
С	1.20	1.30	0.047	0.051	
D	5.00	5.60	0.197	0.220	

# **MARKING DIAGRAM**



= Marking Code P/N G = Green Compound

YWW = Date Code

F = Factory Code

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