SS3P4



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ELECTRICAL CHARACTERISTICS ($T_A = 25 \text{ °C}$ unless otherwise noted)								
PARAMETER	TEST CONDITIONS		SYMBOL	TYP.	MAX.	UNIT		
Maximum instantaneous forward voltage	I _F = 3 A	T _J = 25 °C	V _F ⁽¹⁾	0.55	0.60	V		
		T _J = 125 °C		0.50	0.55			
Maximum reverse current at rated V_{R}		T _J = 25 °C	I _R ⁽²⁾	-	150	μA		
		T _J = 125 °C		7.5	15	mA		
Typical junction capacitance	4.0 V, 1 MHz		CJ	130		pF		

Notes

⁽¹⁾ Pulse test: 300 µs pulse width, 1 % duty cycle

⁽²⁾ Pulse test: Pulse width \leq 40 ms

THERMAL CHARACTERISTICS ($T_A = 25$ °C unless otherwise specified)						
PARAMETER	SYMBOL	SS3P4	UNIT			
	R _{0JA} ⁽¹⁾	85	°C/W			
Typical thermal resistance ⁽¹⁾	R _{θJL} ⁽¹⁾	15				
	R _{0JC} ⁽¹⁾	20				

Note

⁽¹⁾ Thermal resistance from junction to ambient and junction to lead mounted on PCB with 15 mm x 15 mm copper pad areas. $R_{\theta JL}$ is measured at the terminal of cathode band. $R_{\theta JC}$ is measured at the top center of the body

ORDERING INFORMATION (Example)							
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE			
SS3P4-M3/84A	0.024	84A	3000	7" diameter plastic tape and reel			
SS3P4-M3/85A	0.024	85A	10 000	13" diameter plastic tape and reel			
SS3P4HM3/84A (1)	0.024	84A	3000	7" diameter plastic tape and reel			
SS3P4HM3/85A ⁽¹⁾	0.024	85A	10 000	13" diameter plastic tape and reel			

Note

⁽¹⁾ Automotive grade



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RATINGS AND CHARACTERISTICS CURVES ($T_A = 25$ °C unless otherwise specified)

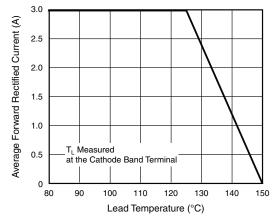


Fig. 1 - Forward Current Derating Curve

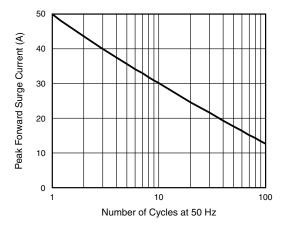


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

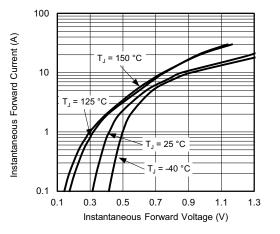
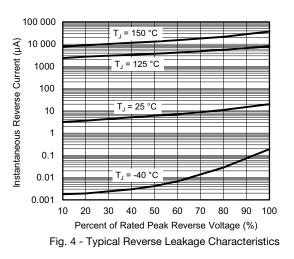


Fig. 3 - Typical Instantaneous Forward Characteristics



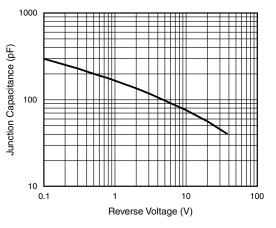


Fig. 5 - Typical Junction Capacitance

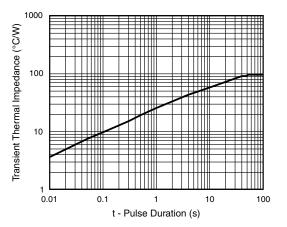


Fig. 6 - Typical Transient Thermal Impedance

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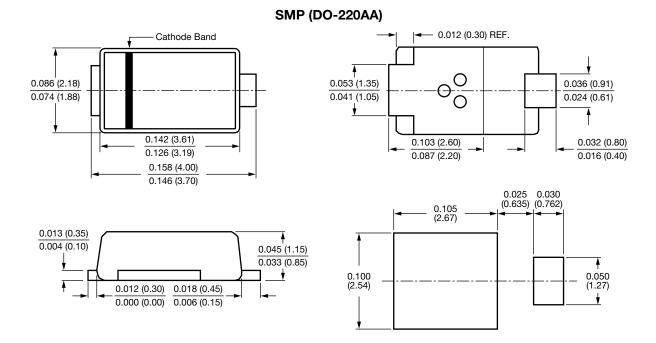
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PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

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