

Vishay General Semiconductor

ELECTRICAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)									
PARAMETER	TEST CONDITIONS		SYMBOL	MURS340	MURS360	UNIT			
Maximum instantaneous forward voltage	I _F = 3.0 A	T _ 05 °C	V _F ⁽¹⁾	1.25		V			
	I _F = 4.0 A	T _J = 25 °C		1.28					
	I _F = 3.0 A	T _J = 150 °C		1.05					
Maximum instantaneous reverse current at rated DC blocking voltage		T _J = 25 °C	I _R ⁽¹⁾	10		μΑ			
		T _J = 150 °C	IR ('')	250					
Maximum reverse recovery time	$I_F = 0.5 \text{ A}, I_R = 1.0 \text{ A}, I_{rr} = 0.25 \text{ A}$		t _{rr}	50		ns			
Maximum reverse recovery time	$I_F = 1.0 \text{ A}, \text{ dI/dt} = 50 \text{ A/}\mu\text{s}, \\ V_R = 30 \text{ V}, I_{rr} = 10 \% I_{RM}$		t _{rr}	75		ns			
Maximum forward recovery time	I _F = 1.0 A, dI/dt = 100 A/μs, recovery to 1.0 V		t _{fr}	25		ns			

Note

 $^{(1)}\,$ Pulse test: t_p = 300 $\mu s, \,duty \,cycle \leq 2 \,\%$

THERMAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)						
PARAMETER	SYMBOL	MURS340	MURS360	UNIT		
Typical thermal resistance junction to lead	$R_{\theta JL}$	11		°C/W		

ORDERING INFORMATION (Example)								
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE				
MURS360-E3/57T	0.211	57T	850	7" diameter plastic tape and reel				
MURS360-E3/9AT	0.211	9AT	3500	13" diameter plastic tape and reel				
MURS360HE3_A/H (1)	0.211	Н	850	7" diameter plastic tape and reel				
MURS360HE3_A/I (1)	0.211	I	3500	13" diameter plastic tape and reel				
MURS360-M3/57T	0.211	57T	850	7" diameter plastic tape and reel				
MURS360-M3/9AT	0.211	9AT	3500	13" diameter plastic tape and reel				
MURS360HM3_A/H (1)	0.211	Н	850	7" diameter plastic tape and reel				
MURS360HM3_A/I (1)	0.211	I	3500	13" diameter plastic tape and reel				

Note

(1) AEC-Q101 qualified

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

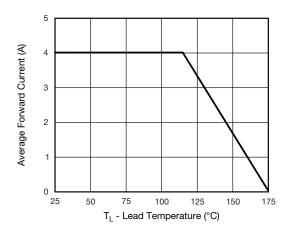


Fig. 1 - Forward Current Derating Curve

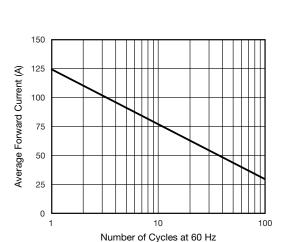


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

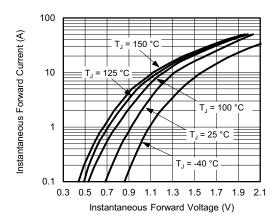


Fig. 3 - Typical Instantaneous Forward Characteristics

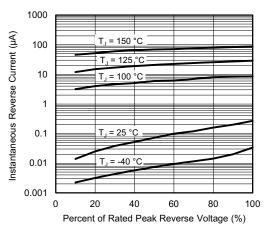


Fig. 4 - Typical Reverse Characteristics

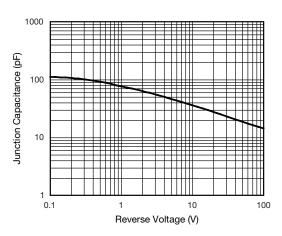


Fig. 5 - Typical Junction Capacitance

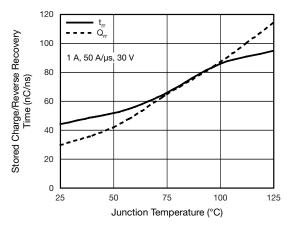


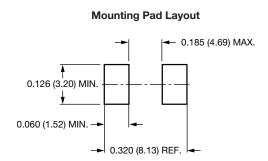
Fig. 6 - Typical Reverse Switching Characteristics



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PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

SMC (DO-214AB) Cathode Band 0.246 (6.22) 0.126 (3.20) 0.220 (5.59) 0.114 (2.90) 0.280 (7.11) 0.260 (6.60) 0.012 (0.305) 0.006 (0.152) 0.103 (2.62) 0.079 (2.06) 0.060 (1.52) 0.008 (0.2) 0.030 (0.76) 0 (0) 0.320 (8.13) 0.305 (7.75)





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