

Thermal-Mechanical Specifications						
Parameters	Symbol	Test Conditions	Max	Unit		
Junction Temperature	T_{J}	-	-55 to +150	°C		
Storage Temperature	T _{stg}	-	-55 to +150	°C		
Thermal Resistance Junction to Ambient	R _{eJA}	DC operation	75	°C/W		
Typical Thermal Resistance Junction to Lead	R _{eJL} *	DC operation	3.5	°C/W		
Approximate Weight	wt	-	0.08	g		
Case Style	TO-277B					

⁽¹⁾ Free air, mounted on recommended copper pad area; thermal resistance $R_{\Theta JA}$ - junction to ambient

Figure 1: Forward Current Derating Curve

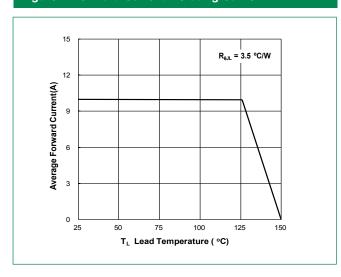


Figure 2: Forward Power Loss Characteristics

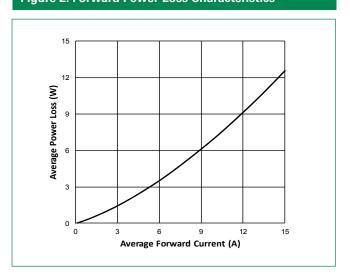


Figure 3: Typical Instantaneous Forward Voltage Characteristics

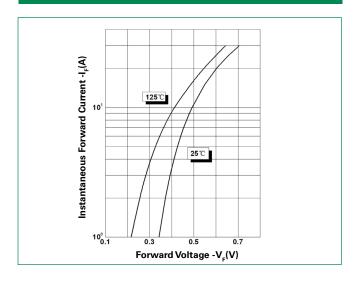
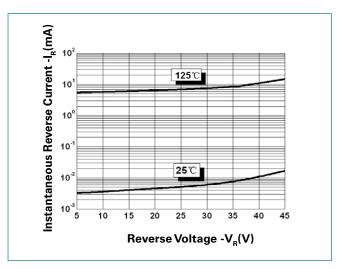


Figure 4: Typical Reverse Characteristics

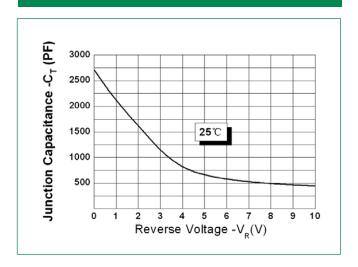


⁽²⁾ Mounted on 30 mm x 30 mm pad areas aluminum PCB; thermal resistance $R_{\Theta J}$ - junction to lead

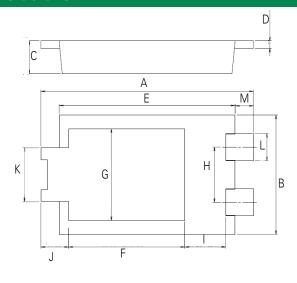
^{*}Lead temperature monitored at the cathode pin



Figure 5: Typical Junction Capacitance

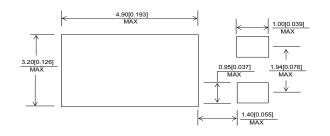


Dimensions-TO-277B



Symbol	Millimeters				
	Min	Тур	Max		
А	6.30	6.50	6.70		
В	3.88	3.98	4.08		
С	0.95	1.10	1.25		
D	0.20	0.25	0.30		
Е	5.28	5.38	5.48		
F	3.40	3.55	3.70		
G	2.90	3.05	3.20		
Н	1.74	1.84	1.94		
I	1.10	1.25	1.40		
J	-	0.85	-		
K	1.70	1.80	1.90		
L	0.85	0.90	0.95		
М	-	0.56	-		

Mounting Pad Layout



Part Numbering and Marking System



DST = CompnentType 10 = Forward Current (10A)

45 = Reverse Voltage (45V)

S = Package Type

A = AEC-Q101 Qualified Compnent

LF = Littelfuse YY = Year

WW = Week
L = Lot Number

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DST1045S-A