Schottky Barrier Rectifier DST1040S-A, 10A, 45V, TO-277B, Single

Thermal-Mechanical Specifications

Parameters	Symbol	Test Conditions	Мах	Unit	
Junction Temperature	TJ	-	-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	vvt	-	0.08	g	
Case Style	ТО-277В				

(1) Free air, mounted on recommended copper pad area; thermal resistance $R_{\Theta_{in}}$ - junction to ambient (2) Mounted on 30 mm x 30 mm pad areas aluminum PCB; thermal resistance $R_{\Theta_{in}}$ - junction to lead *Lead temperature monitored at the cathode pin

Figure 1: Forward Current Derating Curve

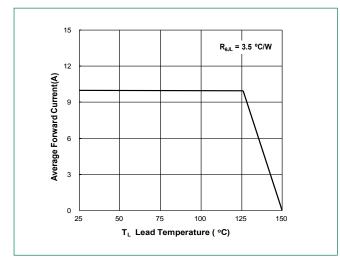


Figure 3: Typical Instantaneous Forward Voltage Characteristics

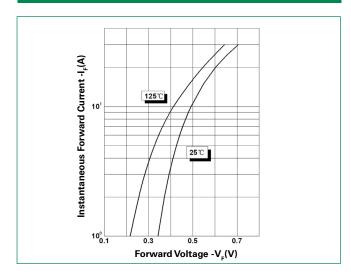


Figure 2: Forward Power Loss Characteristics

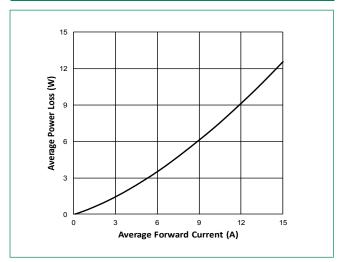
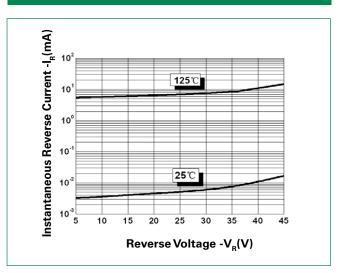


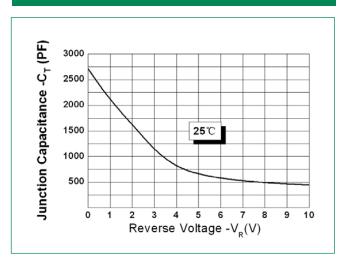
Figure 4: Typical Reverse Characteristics



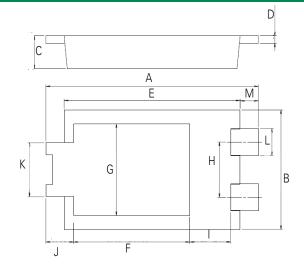


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Figure 5: Typical Junction Capacitance



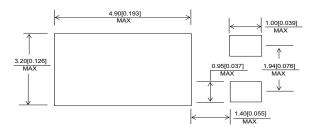
Dimensions-TO-277B



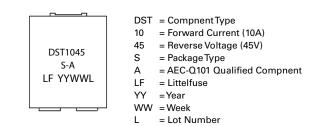
Symbol	Millimeters				
	Min	Тур	Мах		
А	6.30	6.50	6.70		
В	3.88	3.98	4.08		
С	0.95	1.10	1.25		
D	0.20	0.25	0.30		
E	5.28	5.38	5.48		
F	3.40	3.55	3.70		
G	2.90	3.05	3.20		
Н	1.74	1.84	1.94		
1	1.10	1.25	1.40		
J	-	0.85	-		
K	1.70	1.80	1.90		
L	0.85	0.90	0.95		
Μ	-	0.56	-		



Mounting Pad Layout



Part Numbering and Marking System



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