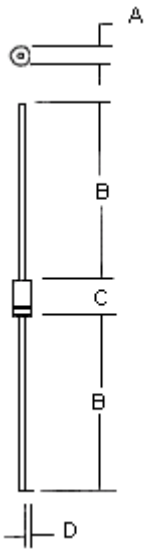
MS503

Schottky Rectifier Diode

Features:

- Schottky barrier rectifier.
- Guard ring protection.



Dimensions

	Minimum	Maximum
A	.188(4.78)	.260(6.50)
B	1.00(25.4)	-
C	.285(7.24)	.375(9.52)
D	.046(1.17)	.056(1.42)

Dimensions : Inches (Millimetres)

Electrical Characteristics

Parameter	Symbol	Test Conditions	Value	Units
Average forward current	$I_{F(AV)}$	T_A = 123°C, square wave, RθJL = 11°C/W, L = 1/8”	5.0	Amps
		T_A = 113°C, square wave, RθJL = 14.7°C/W, L = 3/8”		
Maximum surge current	I_{FSM}	8.3ms, half sine, T_J = 150°C	300	
Maximum peak forward voltage	V_{FM}	I_{FM} = 1.0A : T_J = 25°C*	0.40	Volts
		I_{FM} = 5.0A : T_J = 25°C*	0.49	
Maximum peak reverse current	I_{RM}	V_{RRM}, T_J = 25°C	250	µA
Typical junction capacitance	C_J	V_R = 5.0V, T_J = 25°C	430	pF
Thermal and Mechanical Characteristics:				
Storage temperature range	T_{STG}	-	-40 to +150	°C
Operating junction temperature range	T_J	-		
Maximum thermal resistance	RθJL	L = 3/8" (Junction to lead)	14.7	°C/W
		L = 1/8" (Junction to lead)	11.0	
Weight	-	-	0.032 1	Ounce Grams

*Pulse test: Pulse width 300µ seconds, Duty Cycle 2%.

Figure 1 Typical Forward Characteristics

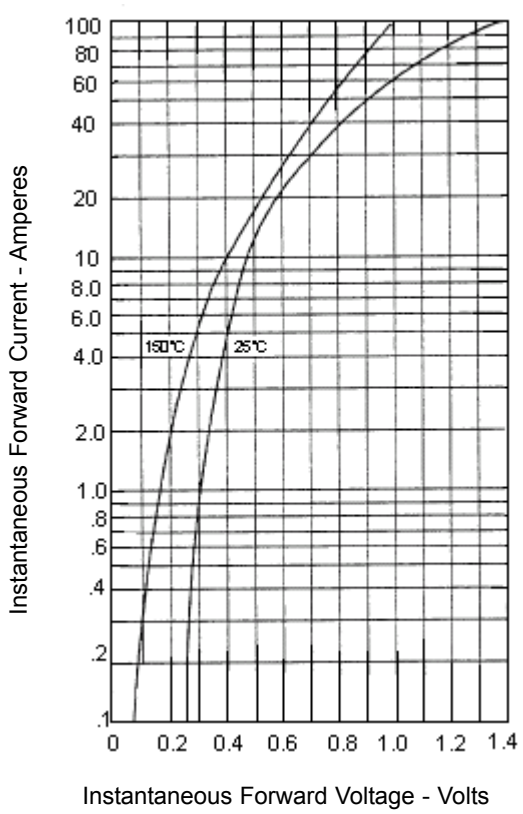


Figure 2 Typical Reverse Characteristics

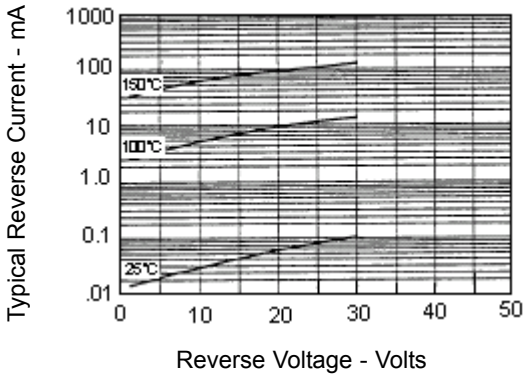
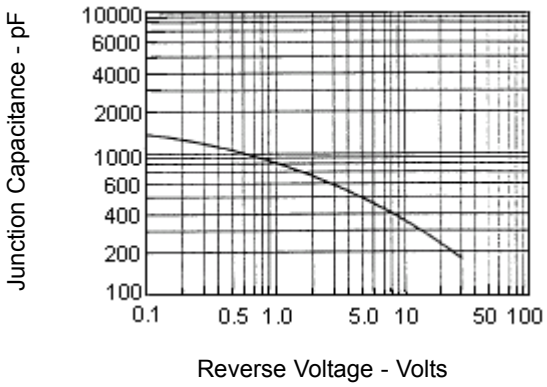


Figure 3 Typical Junction Capacitance



Specifications

$I_{F(av)}$ maximum (A)	V_{RRM} maximum (V)	V_F (V) at I_F = 5A	I_{FSM} (A)	Package	Part Number
5	30	0.49	300	DO-201AD	MS503

Dimensions : Millimetres (Inches)