



MMBD1504A

Silicon Epitaxial Planar Switching Diode

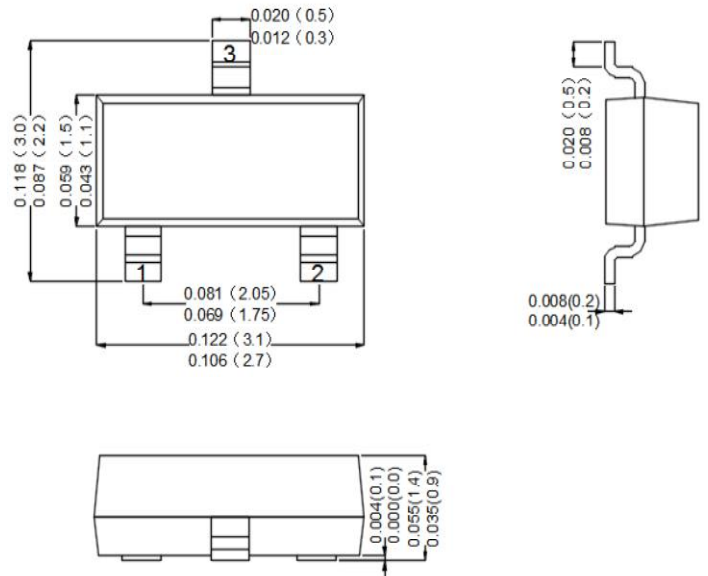
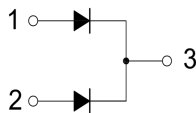
Features

- Small package
- High Conductance

SOT-23

Mechanical Data

- Case: Molded Plastic, SOT-23
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Plated Leads Solderable per MIL-STD-750, Method-2026.
- Marking: A14
- Mounting Position : Any.
- Equivalent Circuit:



Dimensions in inches and (millimeters)

Maximum Ratings Maximum Ratings (Rating at 25°C ambient temperature unless otherwise specified.)

Symbol	Parameter	Value	Unit
V_R	DC Blocking Voltage	200	V
I_O	Continuous Forward Current	200	mA
I_{FM}	Peak Forward Current	700	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current @t=1s	1	A
	@t=1ms	2	A
P_D	Power Dissipation	350	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	357	°C/W
T_j	Junction Temperature	150	°C
T_{stg}	Storage Temperature	-55~+150	°C

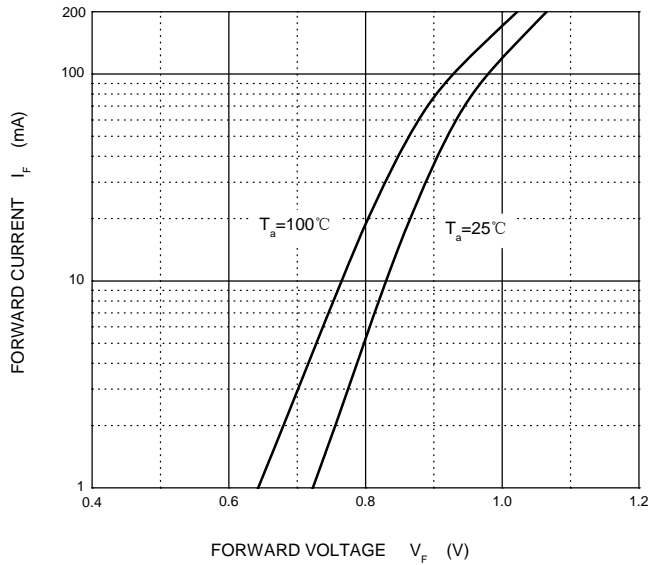
Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=5\mu A$	200			V
Reverse current	I_R	$V_R=180V$			10	nA
Forward voltage	V_F	$I_F=1mA$			0.75	V
		$I_F=10mA$			0.85	
		$I_F=50mA$			0.95	
		$I_F=100mA$			1.1	
		$I_F=200mA$			1.3	
		$I_F=300mA$			1.5	
Total capacitance	C_{tot}	$V_R=0V, f=1MHz$			4	pF

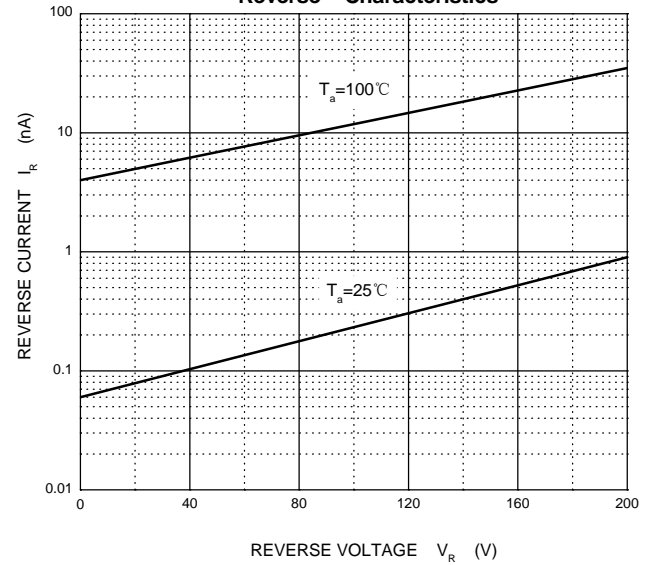


Rating And Characteristic Curves

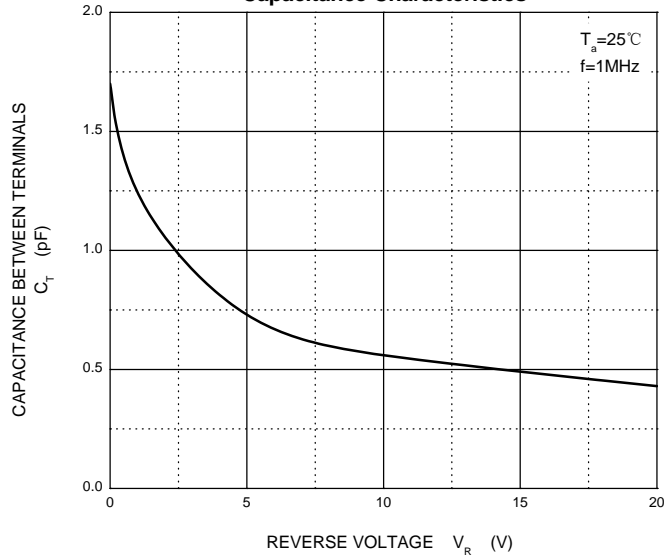
Forward Characteristics



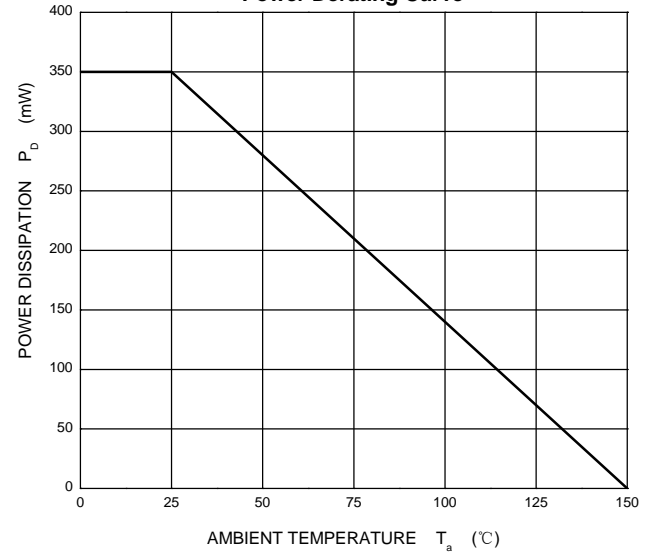
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve





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