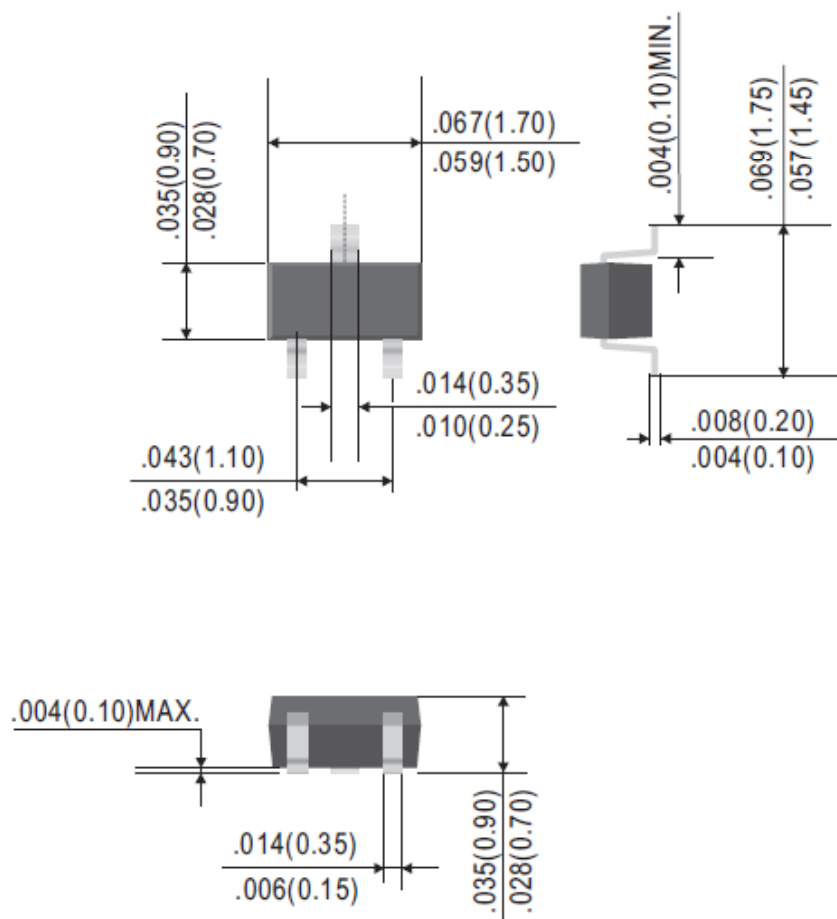
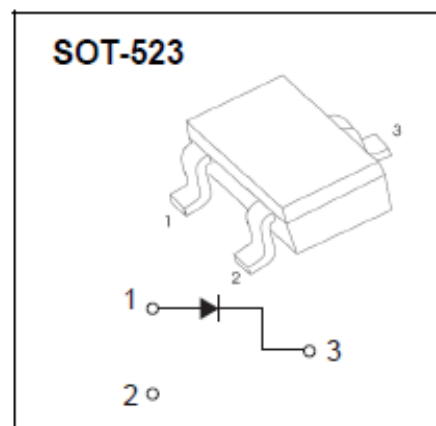




Dimensions in inches and (millimeters)



FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance
- Pb-Free package is available
- RoHS product for packing code suffix "G"
- Halogen free product for packing code suffix "H"
- Moisture Sensitivity Level 1

MARKING: MMBD4148T: KA2
BAS16T: A2

Maximum Ratings ($T_A=25^{\circ}\text{C}$ unless otherwise specified)			
Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Peak Reverse Voltage	V_{RRM}	75	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
RMS Reverse Voltage	$V_{R(RMS)}$	53	V
Forward Continuous Current	I_{FM}	300	mA
Average Rectified Output Current	I_O	150	mA
Peak Forward Surge Current @ $t=1.0\mu\text{s}$	I_{FSM}	2	A
@ $t=1.0\text{s}$		1	
Power Dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	K/W
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Operating/ Storage Temperature Range	T_{STG}	-55~+150	$^{\circ}\text{C}$

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)					
Parameter	Symbol	Test conditions	Min.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=1\mu\text{A}$	75	—	V
Forward Voltage	V_{F1}	$I_F=1\text{mA}$	—	0.715	V
	V_{F2}	$I_F=10\text{mA}$	—	0.855	V
	V_{F3}	$I_F=50\text{mA}$	—	1	V
	V_{F4}	$I_F=150\text{mA}$	—	1.25	V
Reverse Voltage Leakage Current	I_{R1}	$V_R=75\text{V}$	—	1	μA
	I_{R2}	$V_R=20\text{V}$	—	25	nA
Total Capacitance	C_T	$V_R=0\text{V}$, $f=1\text{MHz}$	—	2	pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=10\text{mA}$, $I_{rr}=0.1I_R$, $R_L=100\Omega$	—	4	ns

Typical Characteristics

