

**MBD4148W /BAS16W** SWITCHING DIODE

**FEATURES**

Power dissipation

$P_D$ : 200 mW ( $T_{amb}=25^\circ\text{C}$ )

Collector current

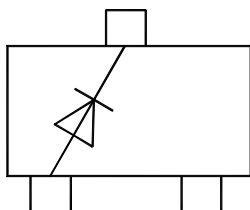
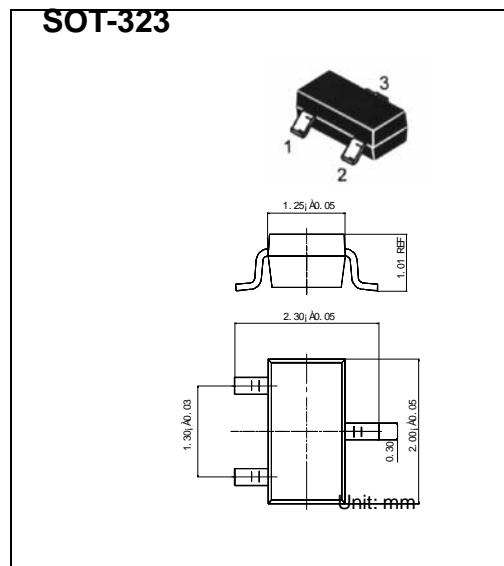
$I_O$ : 150 mA

Collector-base voltage

$V_R$ : 75 V

Operating and storage junction temperature range

$T_J, T_{stg}$ :  $-55^\circ\text{C}$  to  $+150^\circ\text{C}$



Marking: A2, KA2, KT1

**ELECTRICAL CHARACTERISTICS ( $T_{amb}=25^\circ\text{C}$  unless otherwise specified)**

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)R}$	$I_R=100\mu\text{A}$	75		V
Reverse voltage leakage current	$I_R$	$V_R=75\text{V}$		1	$\mu\text{A}$
Forward voltage	$V_F$	$I_F=1\text{mA}$ $I_F=10\text{mA}$ $I_F=50\text{mA}$ $I_F=150\text{mA}$		0.715 0.855 1 1.25	V
Diode capacitance	$C_D$	$V_R=0\text{V}, f=1\text{MHz}$		2	pF
Reveres recovery time	$t_{rr}$	$I_F=I_R=10\text{mA}$ $I_{rr}=0.1 \times I_R$		4	nS