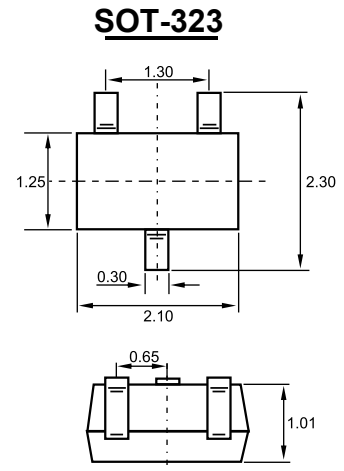


Features

- ✧ Fast switching speed.
- ✧ High conductance.
- ✧ For general purpose switching applications.
- ✧ Surface mount package ideally suited for automatic insertion.



Dimensions in inches and (millimeters)

Applications

- ✧ For general purpose switching applications.

Ordering Information

Type No.	Marking	Package Code
MMBD4448W	KA3	SOT-323

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Non-Repetitive Peak reverse voltage	V_{RM}	100	V
Diode reverse voltage	V_R	75	V
Forward continuous Current	I_F	500	mA
Average output current	I_O	250	mA
Forward Surge Current $t=1\mu s$ $t=1.0s$	I_{FS}	4.0 2.0	A
Power Dissipation	P_d	200	mW
Junction temperature	T_j	150	°C
Storage temperature range	T_{stg}	-65-+150	°C

ELECTRICAL CHARACTERISTICS @ $T_a=25^{\circ}\text{C}$ 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	$V_R=75\text{V}$ $V_R=20\text{V}$		2.5 25	μA nA
Forward voltage	V_F	$I_F=5\text{mA}$ $I_F=10\text{mA}$ $I_F=100\text{mA}$ $I_F=150\text{mA}$		720 855 1000 1250	mV
Diode capacitance	C_D	$V_R=0\text{V}$ $f=1\text{MHz}$		4	pF
Reverse recovery time	t_{rr}	$I_F=I_R=10\text{mA}$ $R_L=100\Omega$		4	nS

TYPICAL CHARACTERISTICS @ $T_a=25^{\circ}\text{C}$ unless otherwise specified
