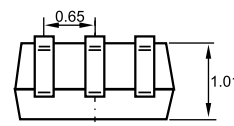
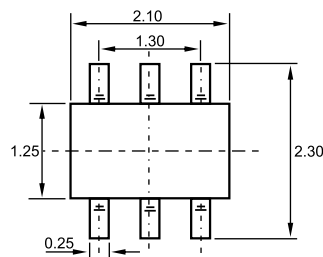


SOT-363



Dimensions in inches and (millimeters)

Features

- ✧ Fast switching speed.
- ✧ For general purpose switching application.
- ✧ Ultra-small surface mount package.
- ✧ High conductance.

Applications

- ✧ For general purpose switching application.

Ordering Information

Type No.	Marking	Package Code
MMBD4148TW	KA2	SOT-363
BAS16TW	KA2*	SOT-363

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Characteristic	Value	Unit
V_{RM}	Non-repetitive peak reverse Voltage	100	V
V_{RRM} V_{RWM} V_R	Peak repetitive reverse Voltage Working peak reverse voltage DC reverse voltage	75	V
I_{FM}	Forward continuous current	300	mA
I_O	Average rectified output current	150	mA
I_{FSM}	Non-Repetitive peak forward surge current @t=1.0μs @t=1.0s	2.0 1.0	A
P_D	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	625	°C/W
T_j, T_{stg}	Junction and Storage Temperature	-65to+150	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)R}$	$I_R=1\mu A$	75	-	V
Forward voltage	V_F	$I_F=1.0mA$ $I_F=10mA$ $I_F=50mA$ $I_F=150mA$	-	0.715 0.855 1.0 1.25	V
Total Capacitance	C_T	$V_{CB}=10V, f=1.0MHz, I_E=0$	-	2.0	pF
Reverse Recovery time	t_{rr}	$I_F=I_R=10mA, I_{tr}=0.1*I_R, R_L=100\Omega$	-	4.0	ns

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified
