

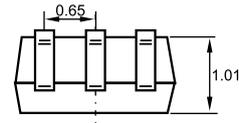
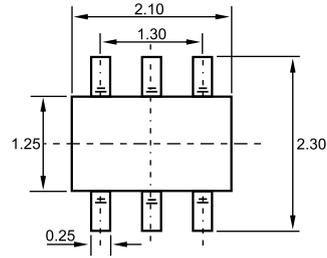
## Features

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

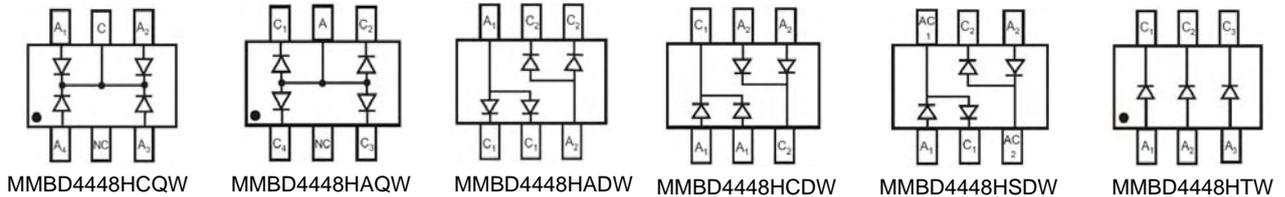
## Applications

- ◇ High speed switching application.

### SOT-363



Dimensions in inches and (millimeters)



## Ordering Information

Type No.	Marking	Package Code
MMBD4448HCQW	KA4	SOT-363
MMBD4448HAQW	KA5	SOT-363
MMBD4448HADW	KA6	SOT-363
MMBD4448HCDW	KA7	SOT-363
MMBD4448HSDW	KAB	SOT-363
MMBD4448HTW	KAA	SOT-363

## MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Characteristic	Value	Unit
$V_{RM}$	Non-Repetitive peak reverse voltage	100	V
$V_{RRM}$	Repetitive peak reverse Voltage	80	V
$V_{RWM}$	Working peak reverse voltage		
$V_R$	DC reverse voltage		
$V_{R(RMS)}$	RMS Reverse voltage	57	V
$I_{FM}$	Forward continuous current	500	mA
$I_O$	Average rectified output current	250	mA
$I_{FSM}$	Forward surge current	@t=1.0μs	4.0
		@t=1.0s	2.0
$P_D$	Power Dissipation	200	mW
$R_{θJA}$	Thermal resistance, Junction to ambient air	625	°C/W
$T_j, T_{stg}$	Junction and Storage Temperature	-65 to +150	°C

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

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)R}$	$I_R=100\mu\text{A}$	80	-	V
Average reverse current	$I_R$	$V_R=70\text{V}$	-	100	nA
		$V_R=75\text{V}, T_j=150^\circ\text{C}$	-	50	$\mu\text{A}$
		$V_R=25\text{V}, T_j=150^\circ\text{C}$	-	30	$\mu\text{A}$
		$V_R=20\text{V}$	-	25	nA
Forward voltage	$V_F$	$I_F=5.0\text{mA}$	0.62	0.72	V
		$I_F=10\text{mA}$	-	0.855	
		$I_F=100\text{mA}$	-	1.0	
		$I_F=150\text{mA}$	-	1.25	
Total Capacitance	$C_T$	$V_R=6\text{V}, f=1.0\text{MHz}$	-	3.5	pF
Reverse Recovery time	$t_{rr}$	$I_F=5\text{mA}, V_R=6\text{V}$	-	4.0	ns

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