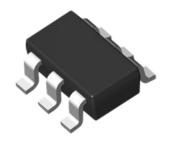
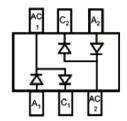
# Surface Mount Fast Switching Diode





#### Features:

- · High Conductance
- · Fast Switching Speed
- · Ultra-Small Surface Mount Package
- For General Purpose Switching Application



**SOT-363** 

### **Applications:**

High speed switching application

### Max. Rating @ TA = 25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Non-Repetitive peak reverse voltage	VRM	100	V
Peak repetitive peak reverse voltage Working peak reverse voltage DC reverse voltage	VRRM VRMS VR	80	V
RMS reverse voltage	VR(RMS)	57	V
Forward continuous current	IFM	500	mA
Average rectified output current	lo	250	mA
Forward surge current	IFSM	4 2	А
Power dissipation	PD	200	mW
Thermal resistance junction to ambient air	RθJA	625	°C/W
Operating and storage temperature range	Т <sub>j,</sub> Тsтg	-65 to +150	°C

#### Electrical Characteristics @ TA = 25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Max.	Unit
Reverse breakdown voltage	VR(BR)	IR = 100μA	80	-	V
Average reverse current	lR	VR = 70V VR = 75V, Tj = 150°C VR = 25V, Tj = 150°C VR = 20V	-	100 50 30 25	nA uA uA nA
Forward voltage	VF	IF = 5mA IF = 10mA IF = 100mA IF = 150mA	0.62 - - -	0.72 0.855 1 1.25	V
Total Capacitance	Ст	V <sub>R</sub> = 6V, f = 1MHz	-	2	pF
Reverse recovery time	t <sub>rr</sub>	IF = 5mA, VR = 6V	-	4	ns

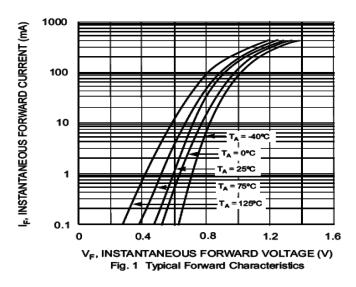
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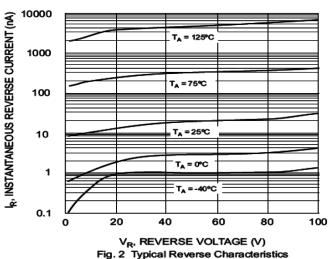


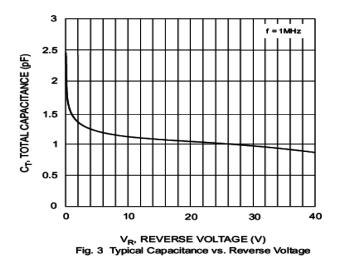
# Surface Mount Fast Switching Diode

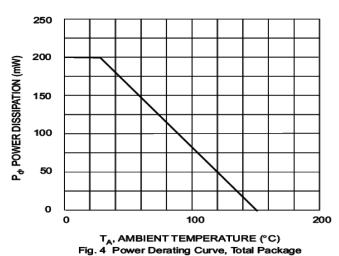


#### Typical Characteristics @ TA = 25°C unless otherwise specified







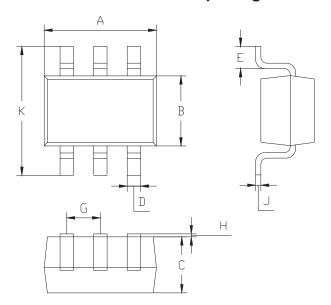


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# Surface Mount Fast Switching Diode

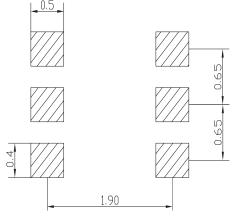


#### Plastic surface mounted package



SOT-363		
Dim	Min	Max
А	1.8	2.2
В	1.15	1.35
С	1 Typical	
D	0.10	0.30
Е	0.25	0.40
G	0.65Typical	
Н	0.02	0.10
J	0.1Typical	
K	2.1	2.3
All Dimensions in mm		

### **Soldering Footprint**



#### **Package Information**

Device	Package	Shipping
MMBD4448HSDW-7-F	SOT-363	3,000 / Tape & Reel

Unit: mm

#### **Part Number Table**

Description	Part Number
Surface Mount Fast Switching Diode	MMBD4448HSDW-7-F

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