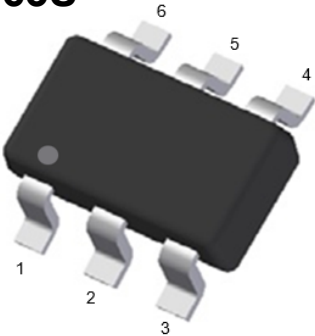




Switching Diodes

SOT-363S



Features

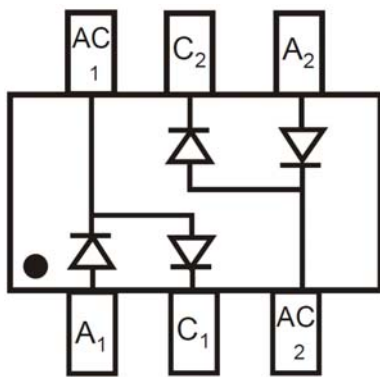
- Epoxy meets UL-94 V-0 flammability rating
- Surface mount package ideally Suited for Automatic Insertion
- Moisture Sensitivity Level 1

Mechanical Data

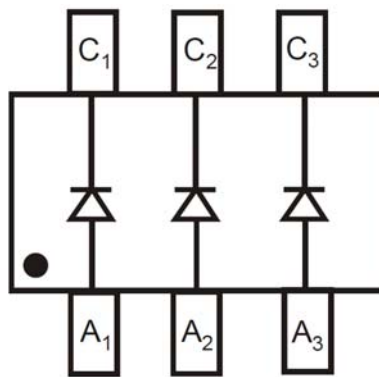
- **Package:** SOT-363S
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:**

MMBD4448HSDWS	KAB
MMBD4448HTWS	KAA
MMBD4448HAQWS	KA5
MMBD4448HADWS	KA6
MMBD4448HCDWS	KA7

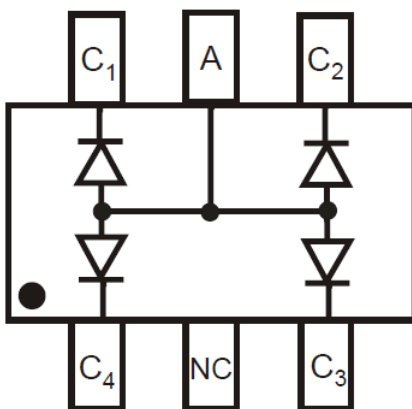
■Equivalent circuit



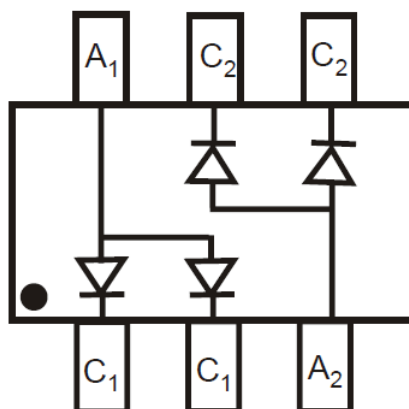
MMBD4448HSDWS



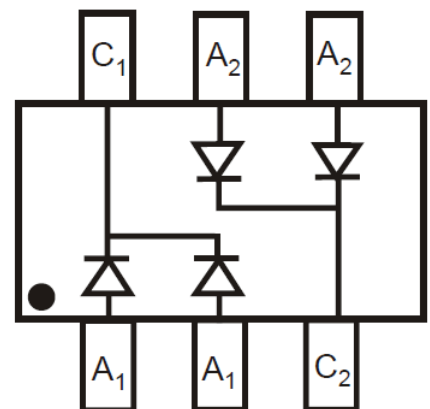
MMBD4448HTWS



MMBD4448HAQWS



MMBD4448HADWS



MMBD4448HCDWS



MMBD4448 HSDWS/ HTWS/ HAQWS/ HADWS/ HCDWS

■ Maximum Ratings (Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Non-Repetitive peak reverse voltage	V_{RM}	V		100
Repetitive peak reverse voltage	V_{RRM}	V		80
Reverse voltage	V_R	V		80
Peak forward surge current	I_{FSM}	A	Pulse width=1 us Pulse width=1 s	2 0.5
Average forward current	I_{FAV}	mA		150
Power dissipation	P_D	mW		200
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	℃/W		625
Maximum junction temperature	T_j	℃		-55 ~+150
Storage temperature range	T_{stg}	℃		-55 ~+150

■ Electrical Characteristics (Ta=25℃ unless otherwise specified)

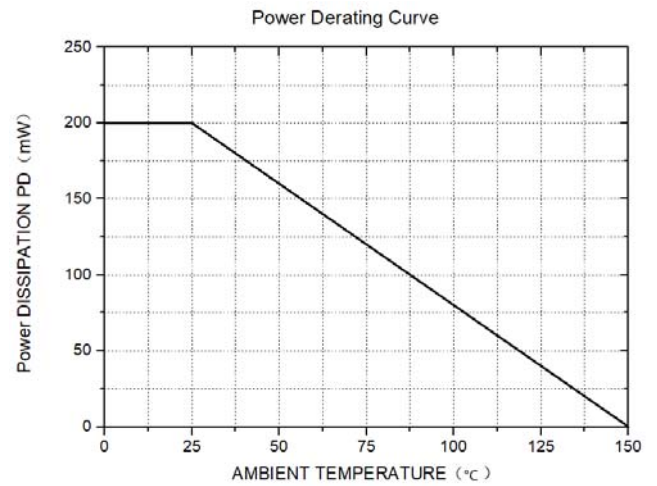
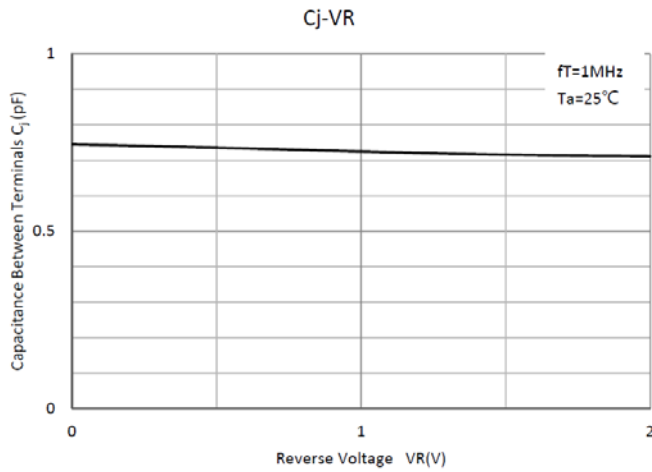
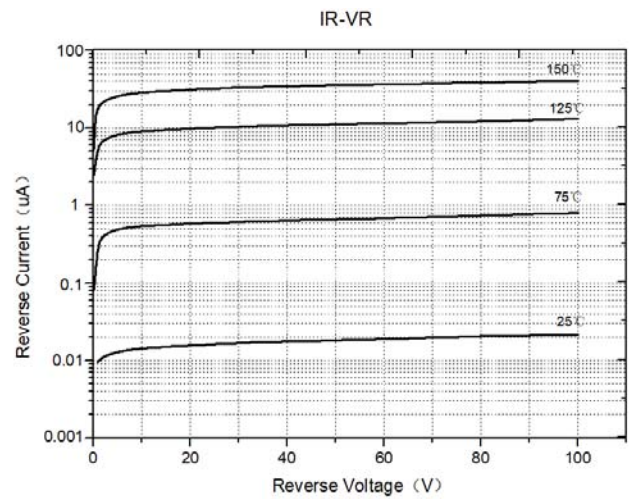
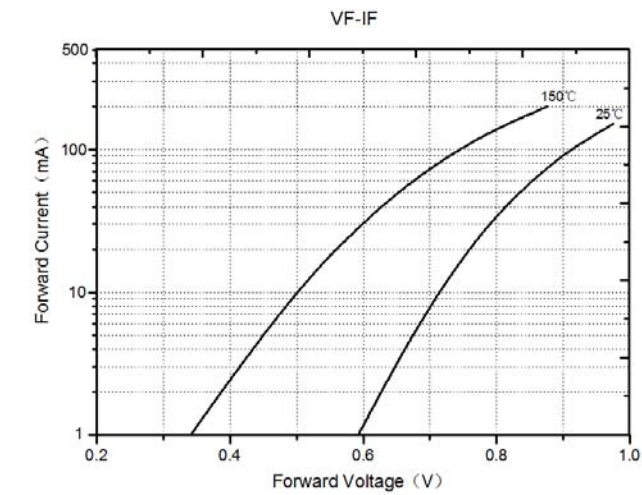
PARAMETER	Symbol	UNIT	Conditions	Min	Max
Breakdown Voltage	V_R	V	$I_R=100\mu A$	80	
Forward Voltage	V_F	V	$I_F=5mA$	0.62	0.72
			$I_F=10mA$		0.855
			$I_F=50mA$		1
			$I_F=150mA$		1.25
Reverse Leakage Current	I_{R1}	nA	$V_R=20V$		25
	I_{R2}	nA	$V_R=70V$		100
Capacitance	C	pF	$V_R=0V, f=1MHz$		3.5
Reverse Recovery Time	T_{RR}	ns	$I_F=10mA, V_R=6V$		4

■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MMBD4448HSDWS	F2	Approximate 0.009g	3000	30000	120000	7" reel
MMBD4448HTWS	F2	Approximate 0.009g	3000	30000	120000	7" reel
MMBD4448HAQWS	F2	Approximate 0.009g	3000	30000	120000	7" reel
MMBD4448HADWS	F2	Approximate 0.009g	3000	30000	120000	7" reel
MMBD4448HCDWS	F2	Approximate 0.009g	3000	30000	120000	7" reel

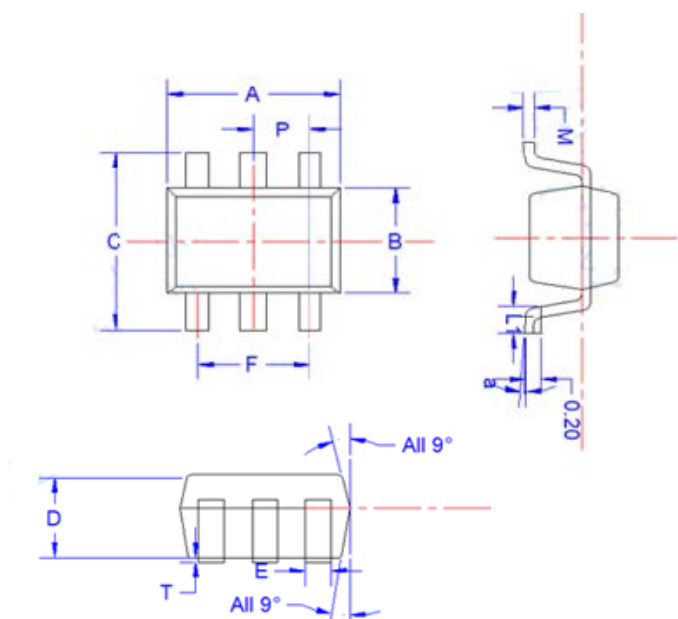


■ Characteristics (Typical)



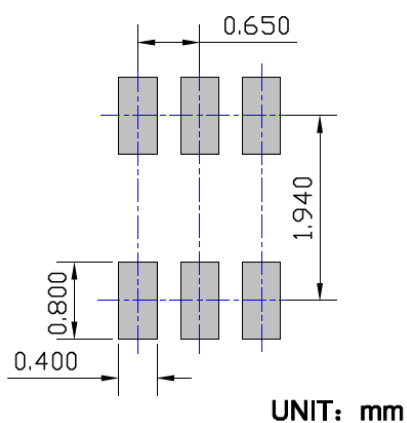


■SOT-363 Package Outline Dimensions



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
E	0.15	0.25	0.35
B	1.15	1.25	1.35
C	2.00	2.10	2.20
P	0.650BSC		
A	1.80	2.00	2.20
T	0.00	0.05	0.100
D	0.90	0.95	1.00
L1	0.20	0.30	0.40
a	4°±4°		
M	0.10	0.15	0.25

■SOT-363 Soldering Footprint





Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website [http:// www.21yangjie.com](http://www.21yangjie.com) , or consult your nearest Yangjie's sales office for further assistance.