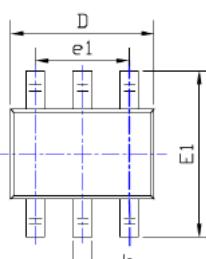
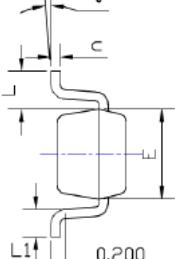
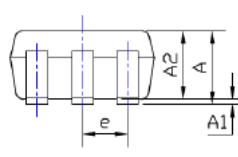


SMD Switching Diode

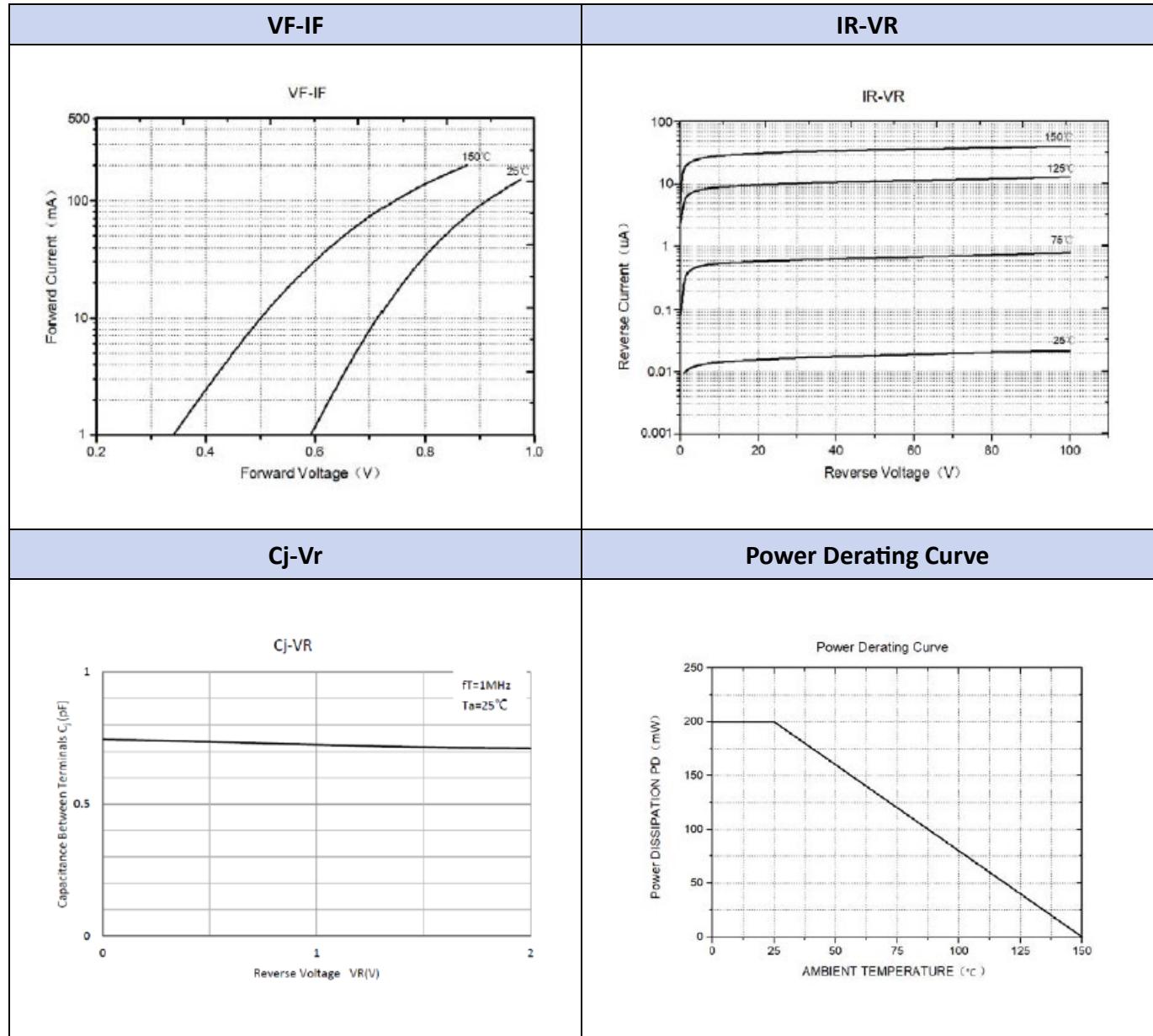
Primary characteristics		
Parameter	Value	Unit
Continuous reverse voltage	80	V
Forward current	150	mA

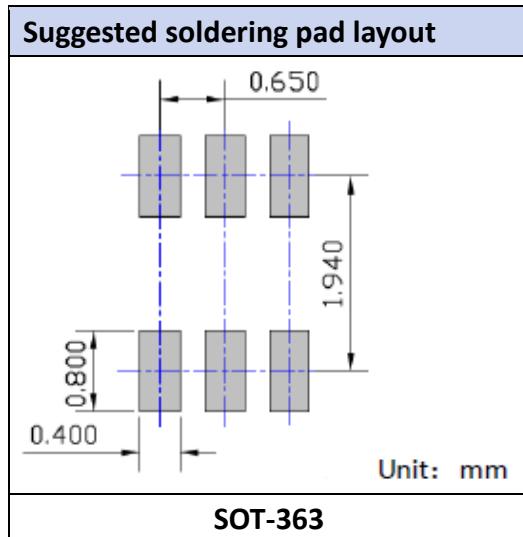
Features

- SOT-363 case for easy automatic insertion
- Pb-free and RoHS compliant
- Epoxy meets UL-94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Tin plated leads, solderable per J-STD-002 and JEDEC22-B102

Case dimensions															
 TOP VIEW								 SIDE VIEW							
 SIDE VIEW								SOT-363							
Unit	A	A1	A2	b	c	D	E	E1	e	e1	L	L1	•		
mm	0.035 0.043	0.000 0.004	0.035 0.039	0.006 0.014	0.004 0.010	0.071 0.087	0.045 0.053	0.085 0.096	0.026 TYP	0.047 0.055	0.021 RED	0.010 0.018	0° 8°		

Absolute maximum ratings and electrical characteristics ($T_a=25^\circ C$)										
Parameter	Symbol	Test conditions				Min.	Value	Typ.	Max.	Unit
		-	-	-	-					
Non-Repetitive peak reverse voltage	V_{RM}	-	-	-	-	-	100	-	-	V
Repetitive peak reverse voltage	V_{RRM}	-	-	-	-	-	80	-	-	V
Reverse voltage	V_R	-	-	-	-	-	80	-	-	V
Peak forward surge current	I_{FSM}	Pulse width=1 us Pulse width=1 s				-	2 0.5	-	-	A
Average forward current	I_{FAV}	-	-	-	-	-	150	-	-	mA
Power dissipation	P_D	-	-	-	-	-	200	-	-	mW
Thermal Resistance Junction to Ambient Air	R_{QJA}	-	-	-	-	-	625	-	-	°C/W
Maximum junction temperature	T_J					-55 ~ +150				°C
Storage temperature	T_{stg}					-55 ~ +150				°C
Breakdown Voltage	V_R	$I_R=100\mu A$				80	-	-	-	V
Forward Voltage	V_F	$I_F=5mA$				0.62	-	0.72	V	
		$I_F=10mA$				-	-	0.855		
		$I_F=50mA$				-	-	1		
		$I_F=150mA$				-	-	1.25		
Reverse Leakage Current	I_{R1}	$V_R=20V$				-	-	25	nA	
	I_{R2}	$V_R=70V$				-	-	100		
Capacitance	C	$V_R=0V, f=1MHz$				-	-	3.5	pF	
Reverse Recovery Time	T_{RR}	$I_F=10mA, V_R=6V$				-	-	4	nS	





Ordering information			
Part Number	Package	Shipping Quantity (pcs)	Marking Code
MMBD4448HTW	SOT-363	3000 / 30000 / 120000	KAA

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