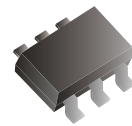


CDSV6-4448TI/AQ/AD/CD/SD-G

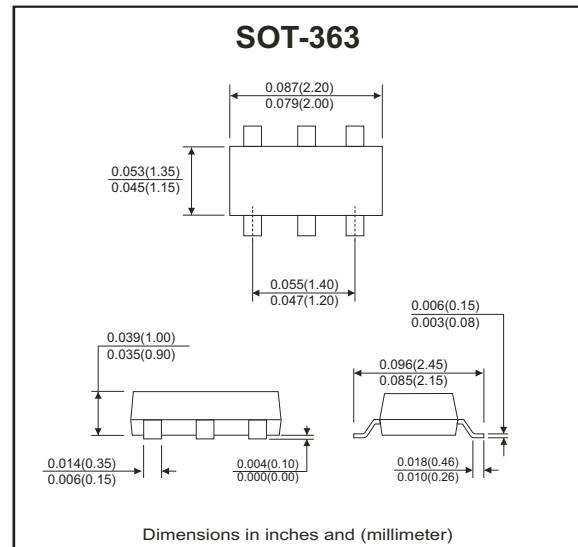
Reverse Voltage: 80 Volts
Forward Current: 100 mA
RoHS Device


Features

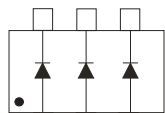
- Design for mounting on small surface.
- High speed switching.
- High mounting capability, strong surge withstand, high reliability.

Mechanical data

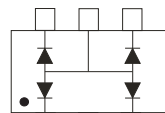
- Case: SOT-363, molded plastic.
- Terminals: solderable per MIL-STD-750, method 2026.
- Approx. weight: 0.006 grams



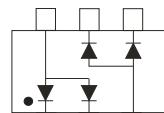
Circuit diagram



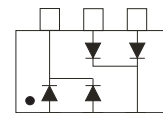
CDSV6-4448TI-G



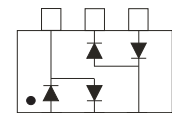
CDSV6-4448AQ-G



CDSV6-4448AD-G



CDSV6-4448CD-G



CDSV6-4448SD-G

Maximum Ratings and Electrical Characteristics

(at Ta=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Value	Units
Repetitive peak reverse voltage	V_{RRM}		80	V
DC blocking voltage	V_R		80	V
Forward current	I_F		100	mA
Peak surge forward current	I_{FSM}	$T=1.0 \mu S$	2	A
Power dissipation	P_D		200	mW
Maximum forward voltage	V_F	$@I_F=1mA$ $@I_F=10mA$ $@I_F=100mA$	0.72 0.855 1.0	V
Maximum reverse current	I_R	$@V_R=20V$ $@V_R=75V$ $@V_R=25V, T_J=150^\circ C$ $@V_R=75V, T_J=150^\circ C$	0.025 0.1 30 50	μA
Maximum reverse recovery time	T_{rr}	$I_F = I_R = 10mA$ $I_{rr} = 0.1 \times I_R, R_L = 100\Omega$	4	nS
Typical diode capacitance	C_T	$V_R=6V, f=1.0MHz$	3.5	pF
Maximum junction temperature	T_J		150	°C
Storage temperature	T_{STG}		-55 to +150	°C

Company reserves the right to improve product design , functions and reliability without notice.

REV:C

RATING AND CHARACTERISTIC CURVES (CDSV6-4448TI/AQ/AD/CD/SD-G)

Fig.1 - Forward Characteristics

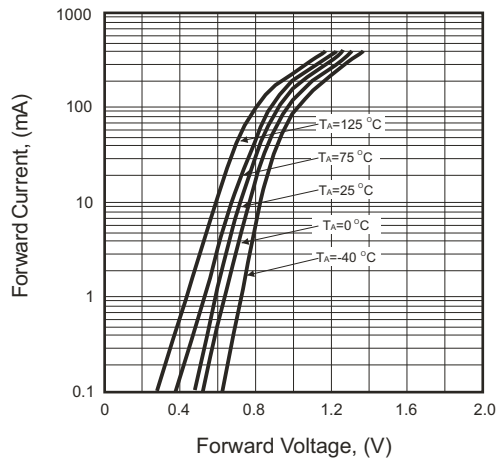


Fig.2 - Reverse Characteristics

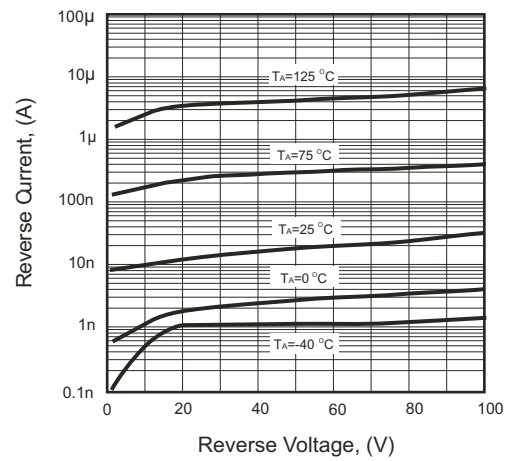


Fig.3 - Capacitance Between Terminals Characteristics

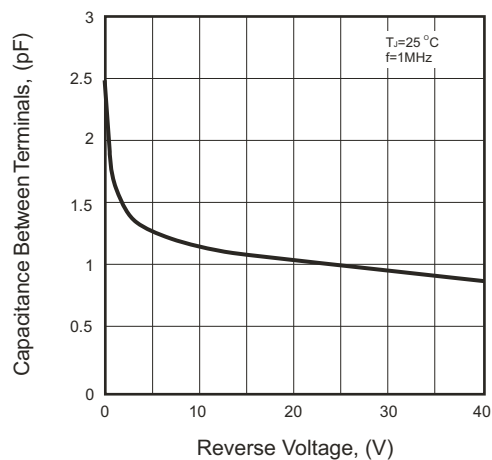
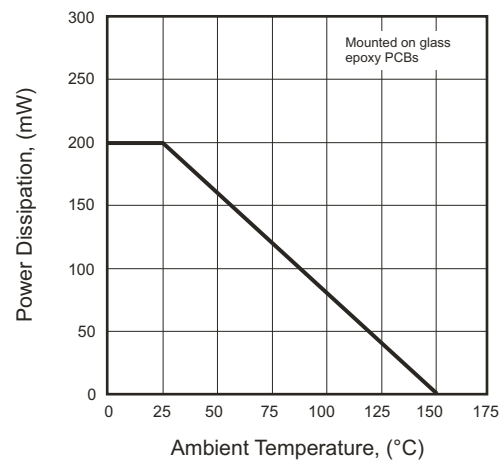
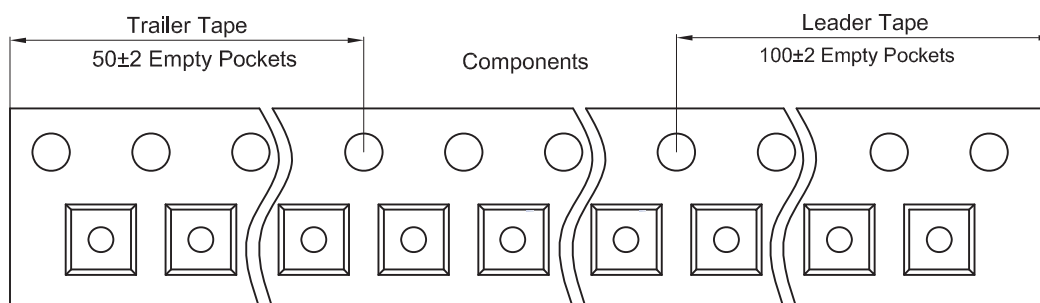
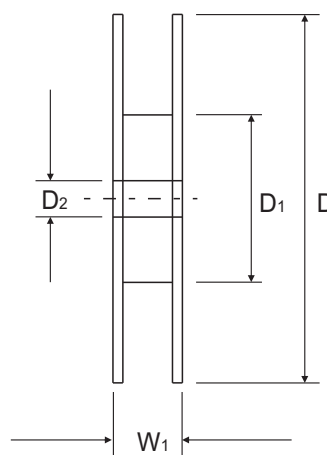
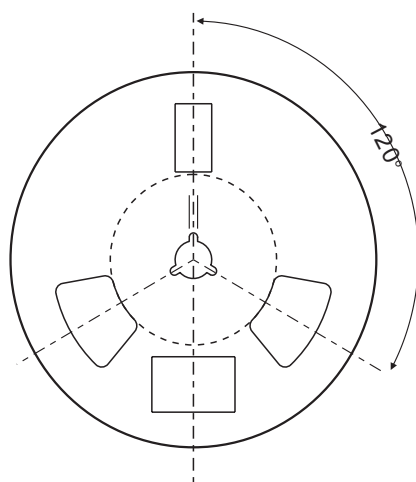
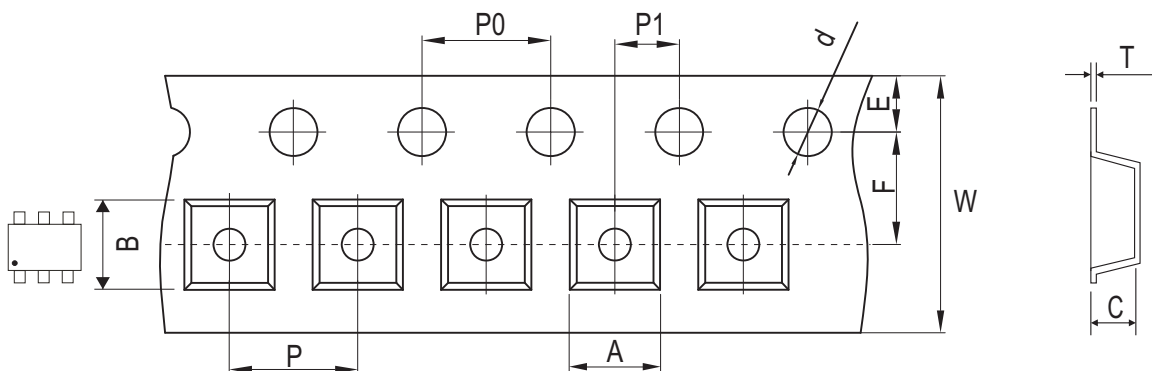


Fig.4 - Power Derating Curve



Reel Taping Specification



SOT-363	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	2.25 ± 0.05	2.55 ± 0.05	1.20 ± 0.05	1.50 ± 0.10	178 ± 2.00	54.40 ± 1.00	13.00 ± 1.00
	(inch)	0.089 ± 0.002	0.100 ± 0.002	0.047 ± 0.002	0.059 ± 0.004	7.008 ± 0.079	2.142 ± 0.039	0.512 ± 0.039

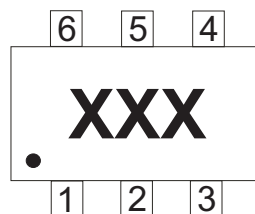
SOT-363	SYMBOL	E	F	P	P0	P1	W	W1
	(mm)	1.75 ± 0.10	3.50 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	$8.00 \pm 0.30 / - 0.10$	12.30 ± 1.00
	(inch)	0.069 ± 0.004	0.138 ± 0.004	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	$0.315 \pm 0.012 / - 0.004$	0.484 ± 0.039

Company reserves the right to improve product design , functions and reliability without notice.

REV:C

Marking Code

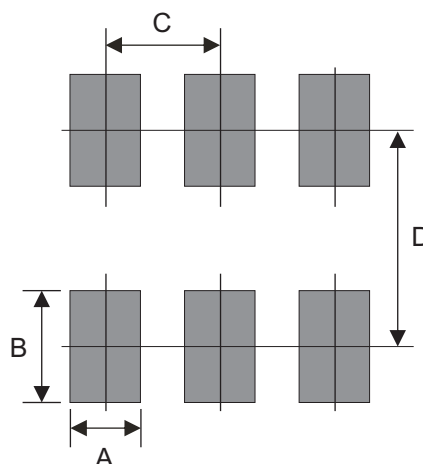
Part Number	Marking Code
CDSV6-4448TI-G	KAA
CDSV6-4448AQ-G	KA5
CDSV6-4448AD-G	KA6
CDSV6-4448CD-G	KA7
CDSV6-4448SD-G	KAB



XXX = Product type marking code

Suggested PAD Layout

SIZE	SOT-363	
	(mm)	(inch)
A	0.40	0.016
B	0.80	0.031
C	0.65	0.026
D	1.94	0.076



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
SOT-363	3,000	7