

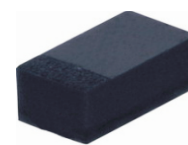
CDSURT4148-HF

Forward Current = 150 mA

Reverse Voltage = 75 Volts

RoHS Device

Halogen Free

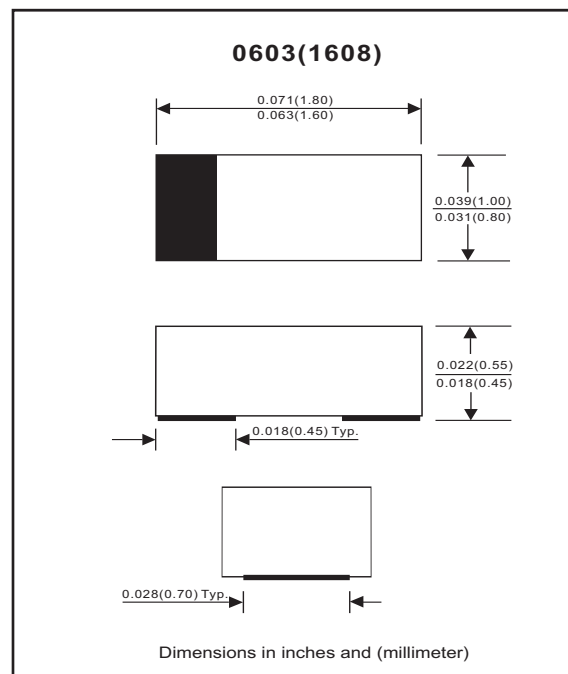


Features

- Designed for mounting on small surface.
- Extremely thin/leadless package.
- Low profile package is 30% thinner than standards 0603
- High mounting capability, strong surge withstand, high reliability.

Mechanical data

- Case: 0603(1608) standard package, molded plastic.
- Terminals: Gold plated, solderable per MIL-STD-750,method 2026.
- Polarity: Indicated by cathode band.
- Marking code: No Marking
- Mounting Position: Any
- Weight: 0.0019 grams approx.



Maximum Rating (at TA=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Repetitive peak reverse voltage		V _{RRM}			100	V
Reverse voltage		V _R			75	V
Average forward current		I _O			150	mA
Forward current,surge peak	T _P = 1μS T _P = 1mS	I _{FSM}		4 1		A
Repetitive peak forward current		I _{FRM}			300	mA
Power Dissipation		P _D			150	mW
Storage temperature		T _{STG}	-40		+125	°C
Junction temperature		T _J			+125	°C

Electrical Characteristics (at TA=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I _F = 50 mA DC	V _F			1.0	V
Reverse current	V _R = 20 V V _R = 75 V	I _R			25 2.5	nA uA
Capacitance between terminals	f = 1 MHz, and 0VDC reverse voltage	C _T			4	pF
Reverse recovery time	I _F = I _R = 10 mA, R _L = 100 ohms, I _{rr} = 1 mA	T _{rr}			4	nS

RATING AND CHARACTERISTIC CURVES (CDSURT4148-HF)

Fig. 1 - Forward characteristics

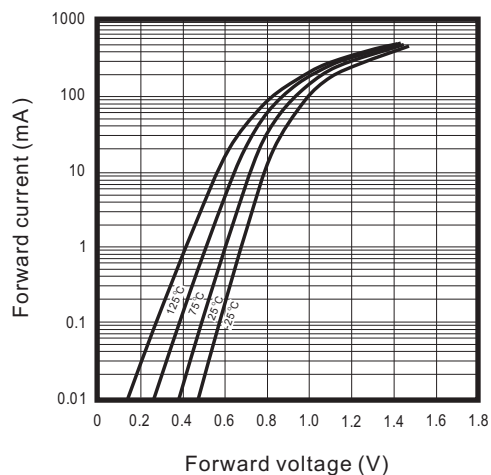


Fig. 2 - Reverse characteristics

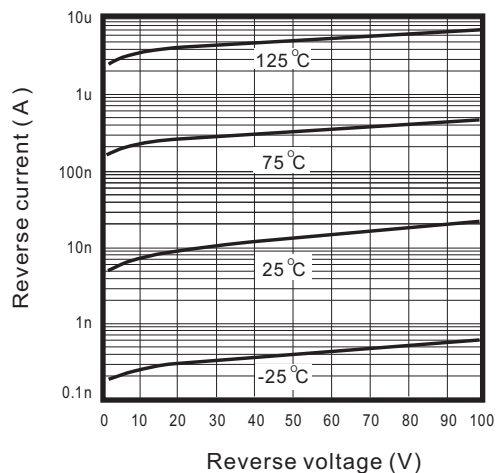


Fig. 3 - Capacitance between terminals characteristics

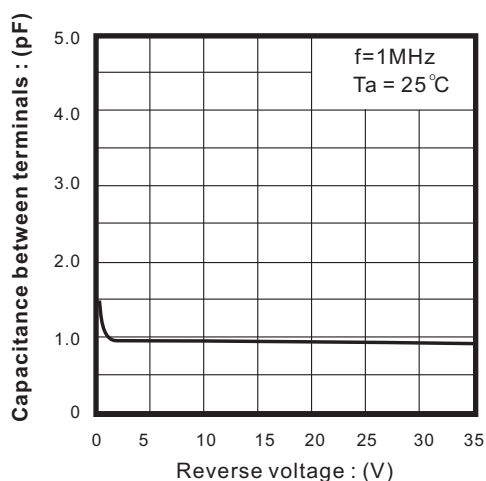
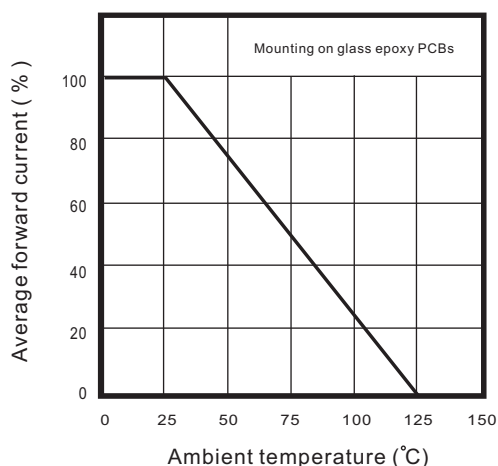
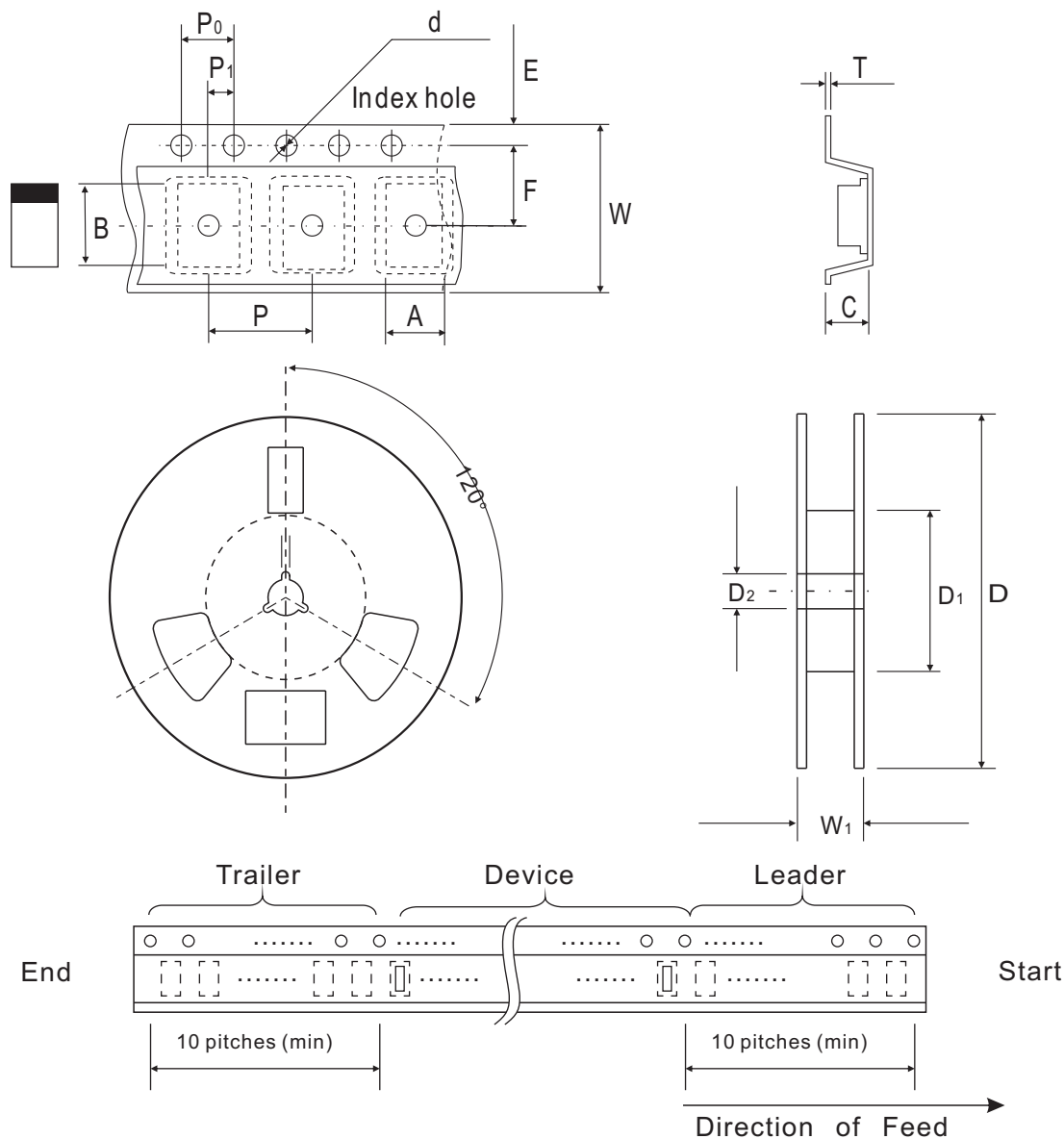


Fig. 4 - Current derating curve



Reel Taping Specification



URT/0603	SYMBOL	A	B	C	d	D	D ₁	D ₂
	(mm)	1.05 ± 0.05	1.96 ± 0.05	0.57 ± 0.05	1.50 ± 0.10	178 ± 1	60.0 MIN.	13.0 ± 0.20
	(inch)	0.041 ± 0.002	0.077 ± 0.002	0.022 ± 0.002	0.059 ± 0.004	7.008 ± 0.04	2.362 MIN.	0.512 ± 0.008

URT/0603	SYMBOL	E	F	P	P ₀	P ₁	T	W	W ₁
	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.05	2.00 ± 0.05	0.20 ± 0.03	8.00 ± 0.20	13.5 MAX.
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.008 ± 0.001	0.315 ± 0.008	0.531 MAX.

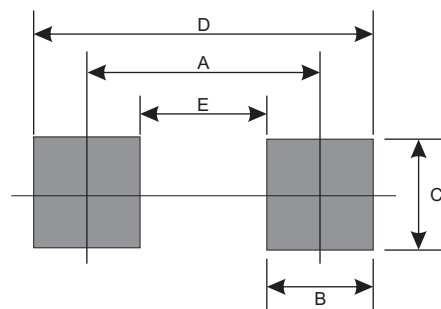
Marking Code

Part Number	Marking Code
CDSURT4148-HF	No Marking



Suggested PAD Layout

SIZE	URT/0603	
	(mm)	(inch)
A	1.25	0.049
B	0.60	0.024
C	1.00	0.039
D	1.85	0.073
E	0.65	0.026



Standard Package

Case Type	Qty per Reel	Reel Size
	(Pcs)	(inch)
URT/0603	4000	7

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