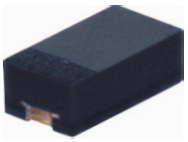
CDSF4448-HF

I_O = 125 mA
V_R = 80 Volts
RoHS Device
Halogen Free

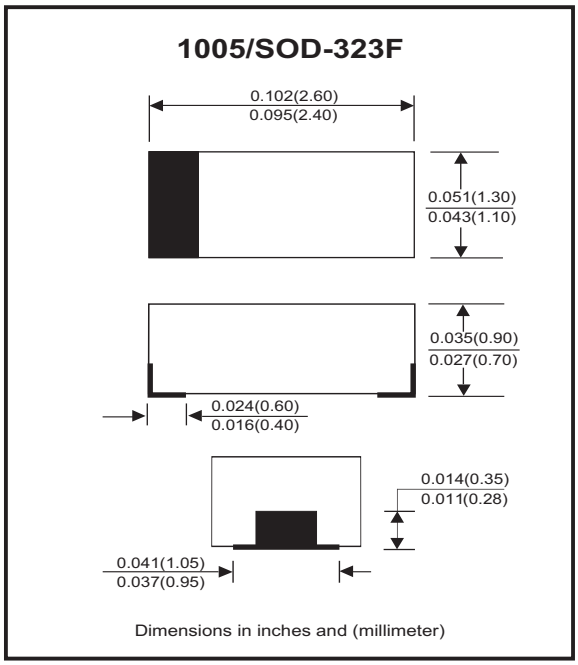


Features

- Fast switching speed
- Designed for mounting on small surface.
- Extremely thin/leadless package.

Mechanical data

- Case: 1005/SOD-323F standard package, molded plastic.
- Terminals: Gold plated, Solderable per MIL-STD-750,method 2026.
- Polarity: Indicated by cathode band.
- Mounting position: Any.
- Weight: 0.006 grams(approx.).



Circuit diagram

Maximum Rating (at T_A=25 ºC unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Repetitive peak reverse voltage		V_{RRM}			100	V
Reverse voltage		V_R			80	V
Average forward rectified current		I_O			125	mA
Forward current, surge peak	8.3 ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}			1	A
Power dissipation		P_D			330	mW
Thermal resistance	Junction to ambient	$R_{\Theta JA}$			300	°C/W
Operating temperature range		T_j	-40		+125	°C
Storage temperature range		T_{STG}	-40		+125	°C

Electrical Characteristics (at T_A=25 ºC unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I_F = 5 mA I_F = 100 mA	V_F			0.72 1	V
Reverse current	V_R = 30V V_R = 80V	I_R			25 100	nA
Capacitance between terminals	f = 1MHz, and 0.5 V_{DC} reverse voltage	C_T			9	pF
Reverse recovery time	I_F = I_R = 10 mA, I_{rr} = 0.1 X I_R, R_L =100 ohm	T_{rr}			9	nS

RATING AND CHARACTERISTIC CURVES (CDSF4448-HF)

Fig.1 - Forward Characteristics

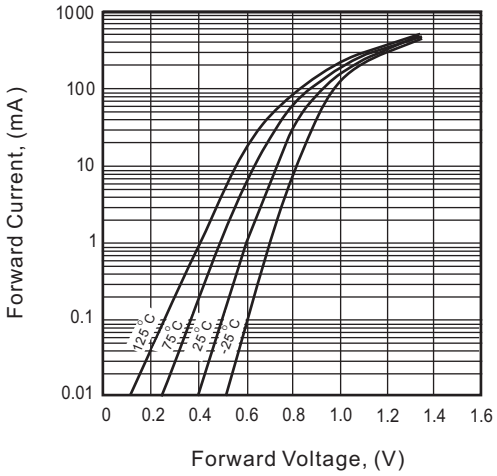


Fig.2 - Reverse Characteristics

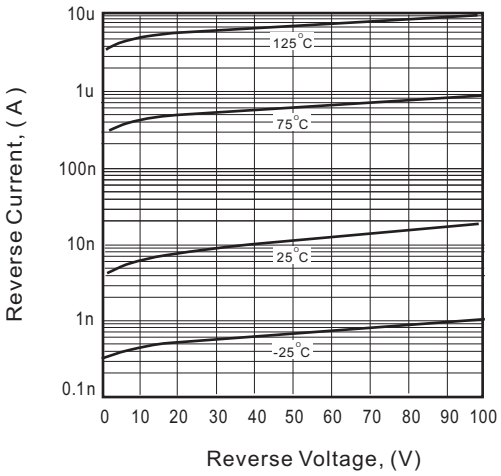


Fig.3 - Capacitance Between Terminals Characteristics

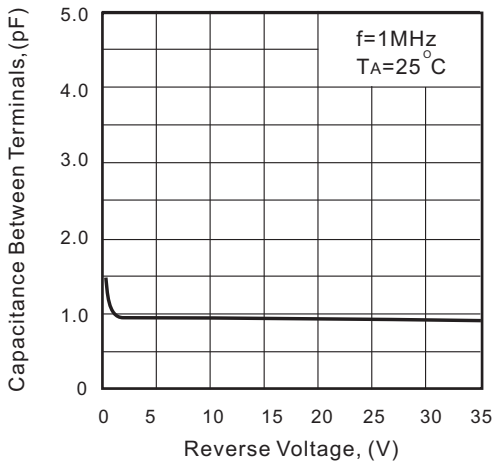
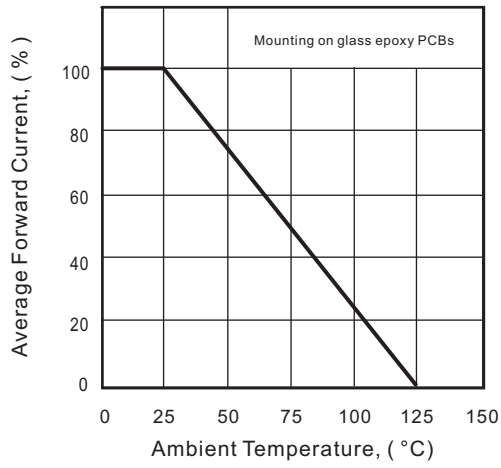
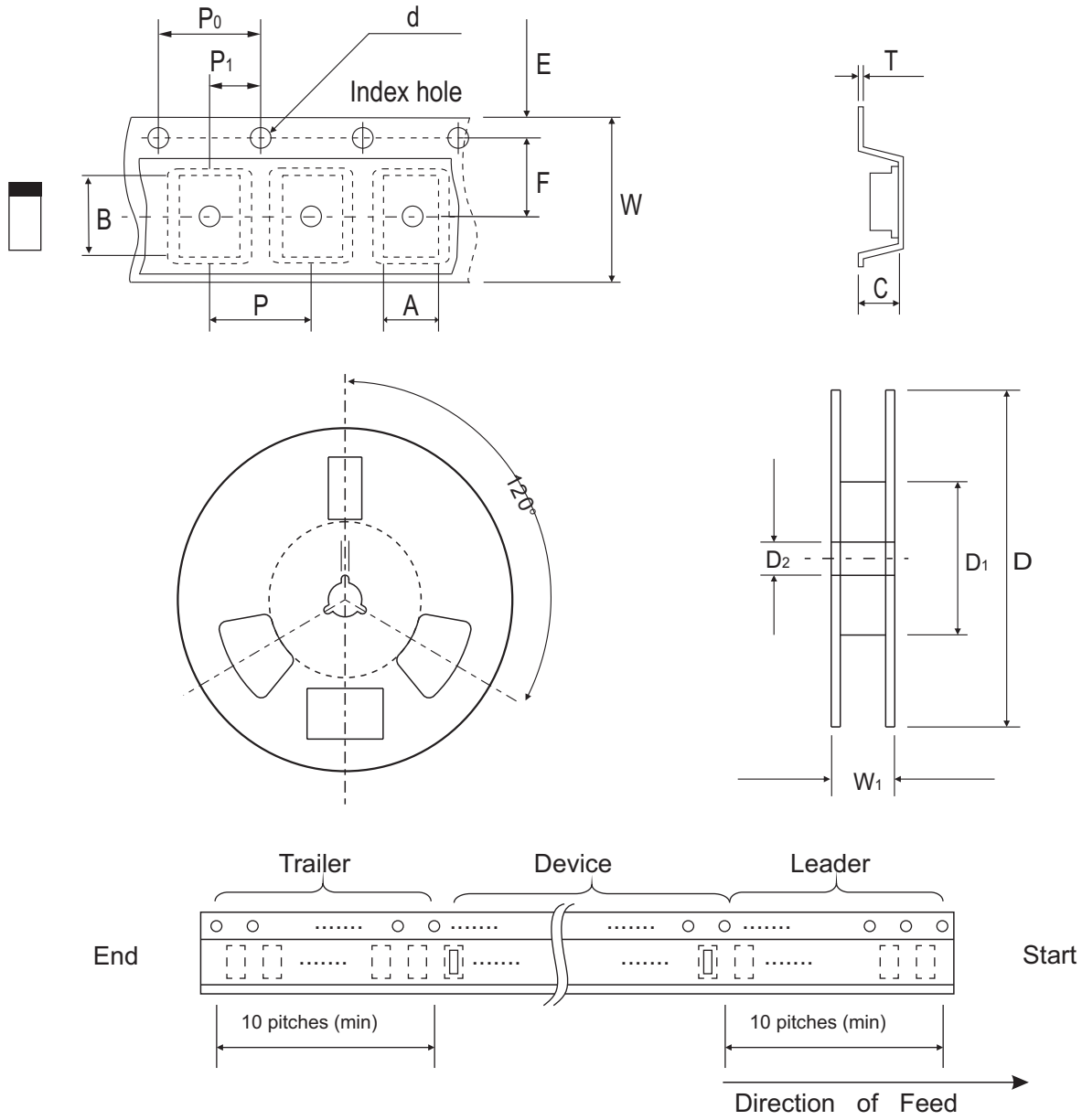


Fig.4 - Current Derating Curve



Reel Taping Specification



	SYMBOL	A	B	C	d	D	D_1	D_2
1005 (SOD-323F)	(mm)	1.55 ± 0.10	2.65 ± 0.10	1.05 ± 0.10	1.55 ± 0.05	178 ± 1.0	60.0 MIN.	13.00 ± 0.20
	(inch)	0.061 ± 0.004	0.104 ± 0.004	0.041 ± 0.004	0.061 ± 0.002	7.008 ± 0.04	2.362 MIN.	0.512 ± 0.008

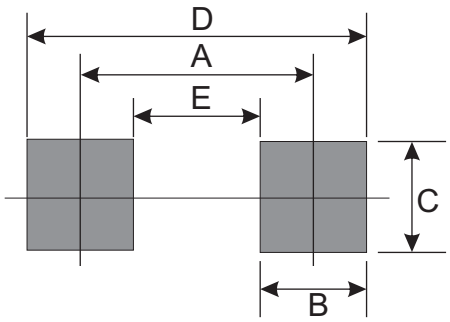
	SYMBOL	E	F	P	P_0	P_1	T	W	W_1
1005 (SOD-323F)	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	0.23 ± 0.05	8.00 ± 0.20	13.5 MAX.
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.009 ± 0.002	0.315 ± 0.008	0.531 MAX.

Marking Code

Part Number	Marking Code
CDSF4448-HF	S5

Suggested PAD Layout

SIZE	1005/SOD-323F	
	(mm)	(inch)
A	2.10	0.083
B	1.20	0.047
C	1.20	0.047
D	3.30	0.130
E	0.90	0.035



Standard Packaging

Case Type	Qty Per Reel	Reel Size
	(Pcs)	(inch)
1005/SOD-323F	4,000	7

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