

FEATURES

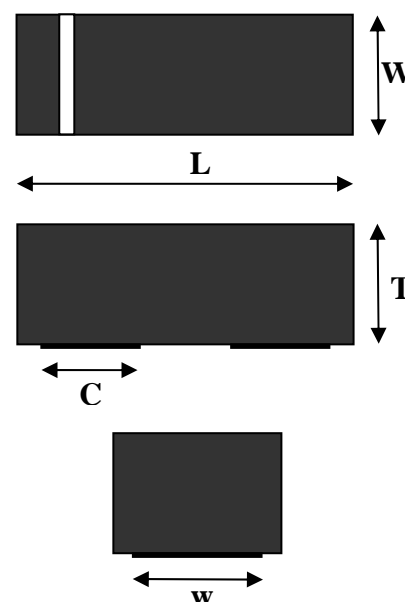
- Designed for mounting on small surface
- Extremely thin/leadless package
- Low leakage current
- High mounting capability, strong surge withstand, high reliability

MECHANICAL CHARACTERISTICS

- Case: 0402standard package,molded plastic.
- Terminals: Sn plated type solderable per MIL-STD-750,method 2026.
- Marking Code: Cathode band
- Mounting position: Any
- Weight: 0.001 gram(approx.)

DIMENSIONS

Dimension/mm	0402
L	1.00 ± 0.05
W	0.60 ± 0.05
T	0.50 ± 0.05
C	0.30 ± 0.05
w	0.50 ± 0.05



MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS (at TA=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Repetitive peak reverse voltage		V_{RRM}			90	V
Reverse voltage		V_R			80	V
Average forward current		I_O			100	mA
Forward current,surge peak	8.3 ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}		500		mA
Repetitive peak forward current		I_{FRM}			225	mA
Power Dissipation		P_D			125	mW
Storage temperature		T_{STG}	-55		+125	°C
Junction temperature		T_j			+125	°C
Forward voltage	$I_F = 100 \text{ mA}$	V_F			1.0	V
Reverse current	$V_R = 80 \text{ V}$	I_R			0.5	uA
Capacitance between terminals	$f = 1 \text{ MHz}$,and 0.5VDC reverse voltage	C_T			3	pF
Reverse recovery time	$V_R = 6 \text{ V}$, $I_F = 10 \text{ mA}$, $R_L = 50 \text{ ohms}$	T_{rr}			4	nS

RATING AND CHARACTERISTIC CURVES

Fig. 1 - Forward characteristics

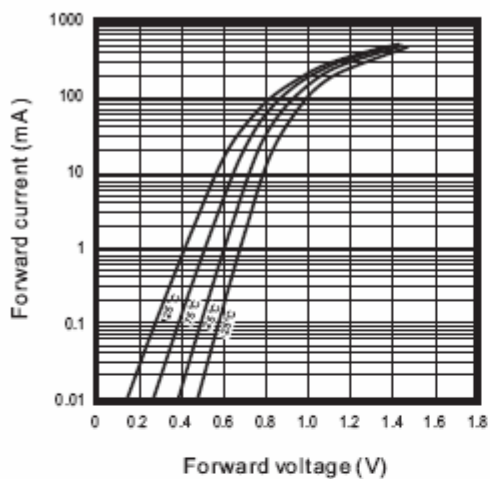


Fig. 2 - Reverse characteristics

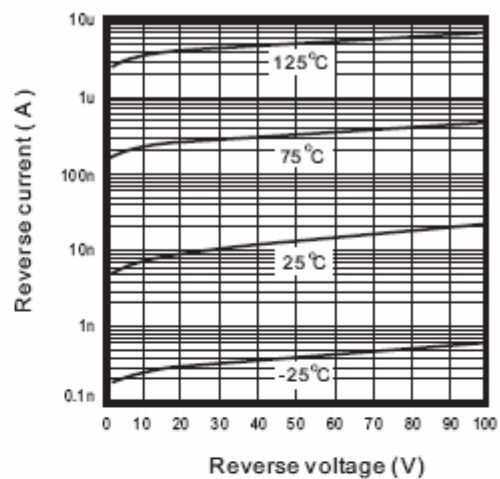


Fig. 3 - Capacitance between terminals characteristics

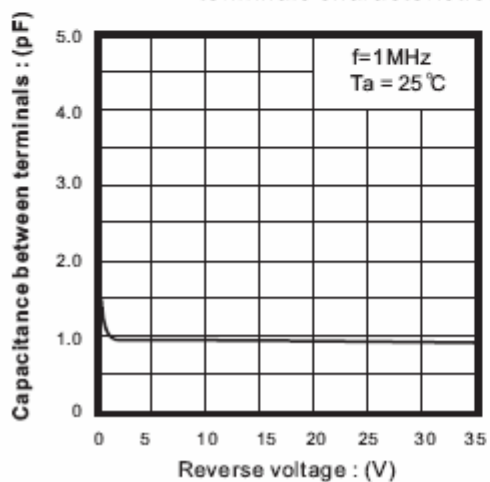
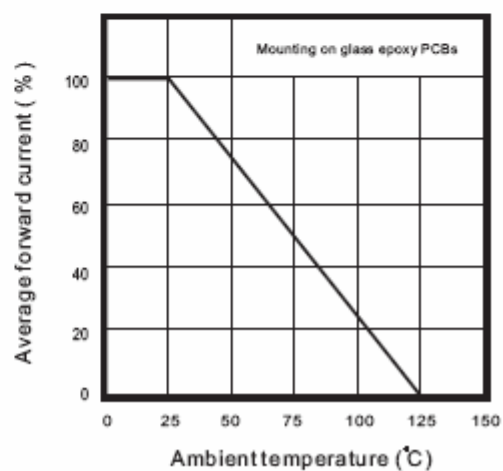
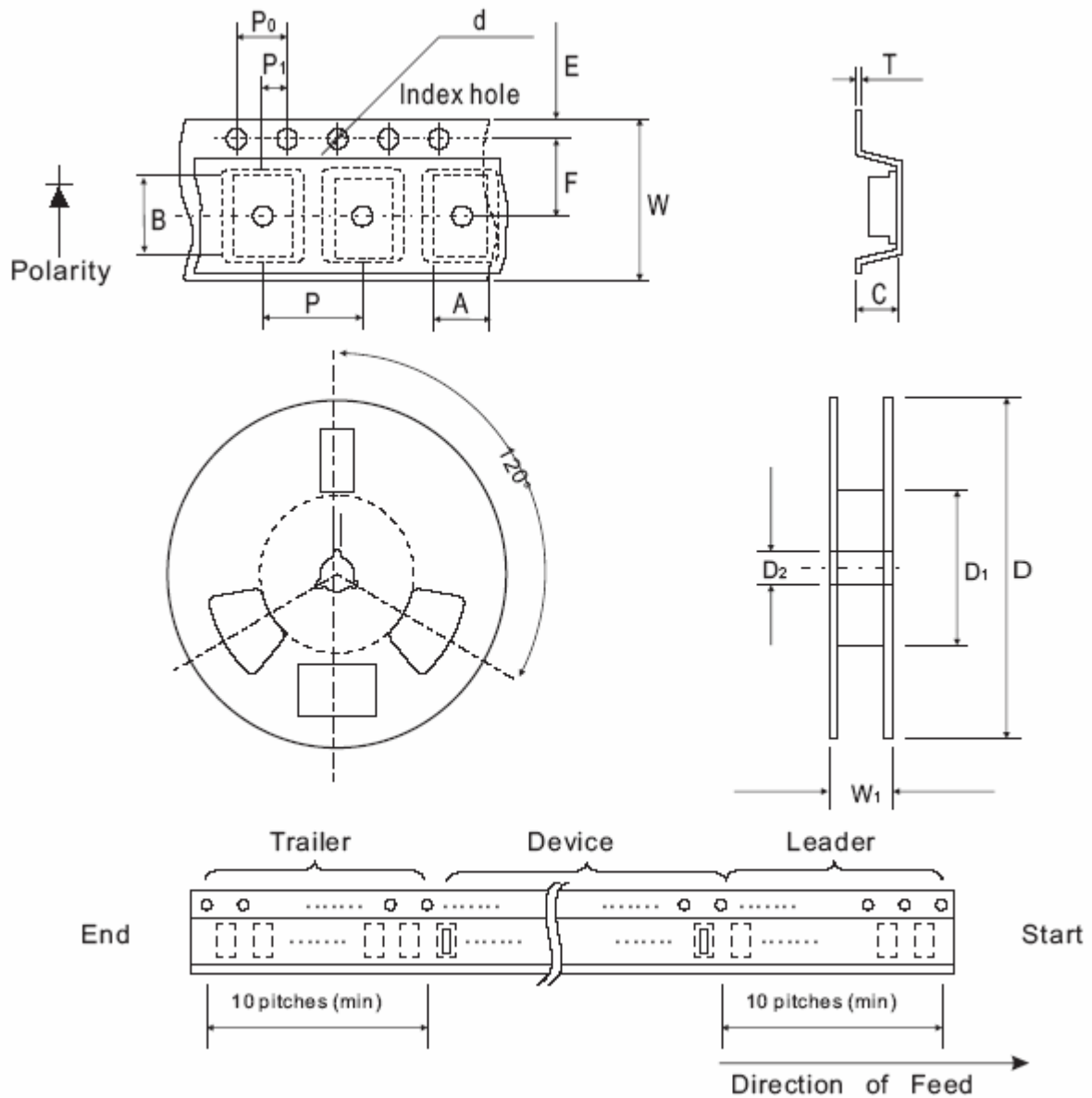


Fig. 4 - Current derating curve



PACKING SPECIFICATION



Tape & Reel Dimensions

Package	Unit	A	B	C	d	D	D1	D2
0402QR	mm	0.72±0.10	1.14±0.10	0.55±0.10	1.50±0.10	178±0.10	60MIN	13.0±0.20
	inch	0.028±0.004	0.045±0.004	0.022±0.004	0.060±0.004	7.008±0.04	2.362MIN	0.512±0.008

Package	Unit	E	F	p	P0	P1	T	W	W1
0402QR	mm	1.75±0.1	3.5±0.1	4.0±0.1	4.0±0.1	2.0±0.1	0.22±0.03	8.0±0.1	13.5MAX
	inch	0.069±0.004	0.138±0.002	0.157±0.004	0.157±0.004	0.079±0.004	0.009±0.002	0.315±0.008	0.531MAX

Suggested PAD Layout

Size	Dimension/ mm				
	A	B	C	D	E
0402QR	0.6402	0.2492	0.4896	0.8912	0.3904
	0.0253"	0.0098"	0.0193"	0.0351"	0.0154"

