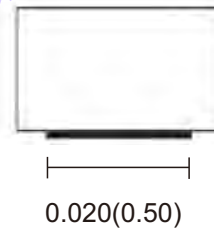
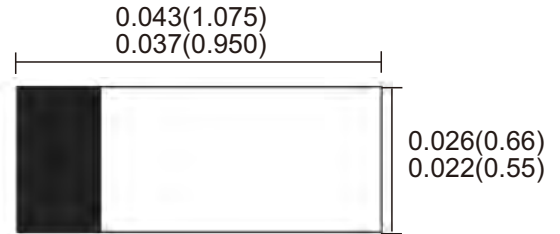


0402



FEATURES

- Low forward voltage
- Thin & leadless package for space saving
- Pb-Free package is available**
- RoHS product for packing code suffix "G"
- Halogen free product for packing code suffix "H"

MECHANICAL CHARACTERISTICS

- Case: 0402 mold package
- Terminal: Gold plated type or Sn plated type solderable per MIL-STD-750, method 2026
- Marking: cathode band & BP
- Weight: Approx. 1mg

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

Parameter at T _{amb} =25°C	Condition	Symbol	Min	Typ	Max	Unit
Repetitive peak reverse voltage		VRRM			35	V
Reverse voltage		VR			30	V
Average forward current		I _o			100	mA
Forward current surge peak	8.3ms single half sine-wave	IFSM			1	A
Storage/Operation temperature		T _{stg}	-40		+125	°C
Junction temperature		T _j			+125	°C

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

Parameter at T _{amb} =25°C	Condition	Symbol	Min	Typ	Max	Unit
Forward voltage	IF=10mA	VF			0.35	V
Reverse current	VR=10V	IR			10	uA

TYPICAL CHARACTERISTICS

Fig. 1 - Forward characteristics

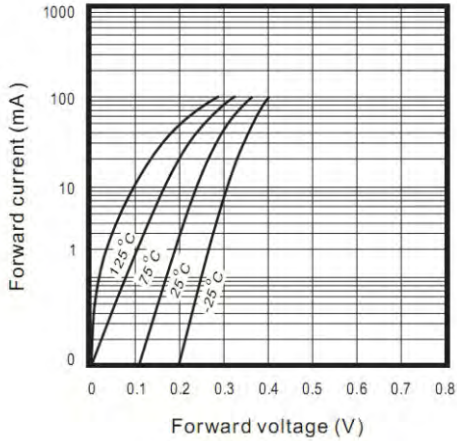


Fig. 2 - Reverse characteristics

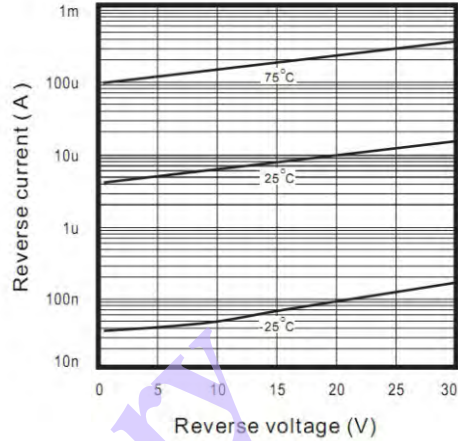


Fig.3 - Capacitance between terminals characteristics

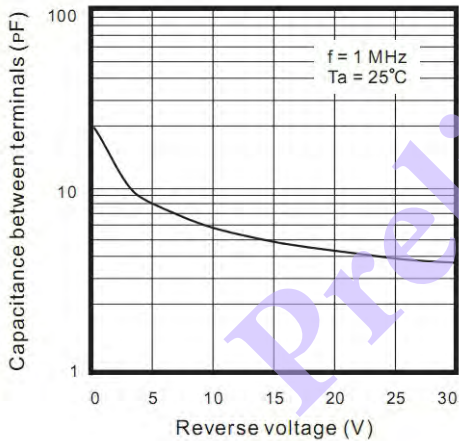


Fig.4 - Current derating curve

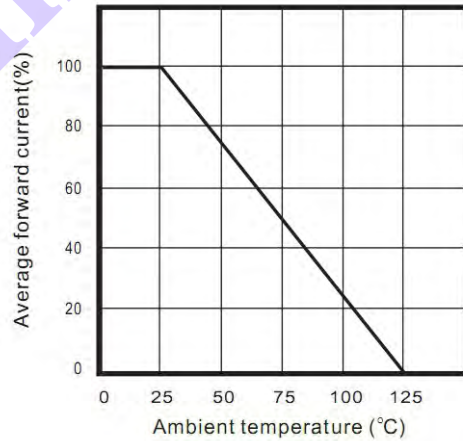


Fig. 5 - VF Dispersion map

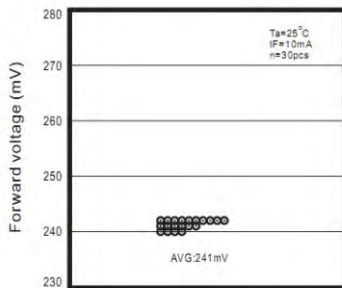


Fig. 6 - IR Dispersion map

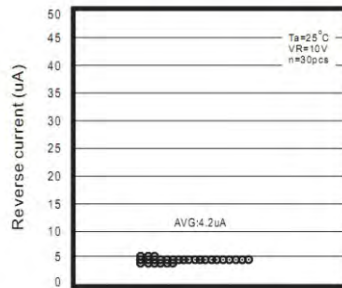
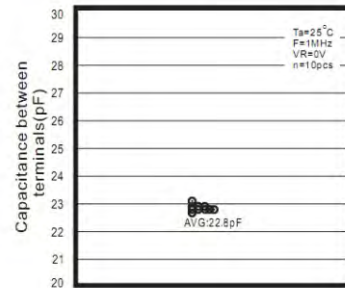
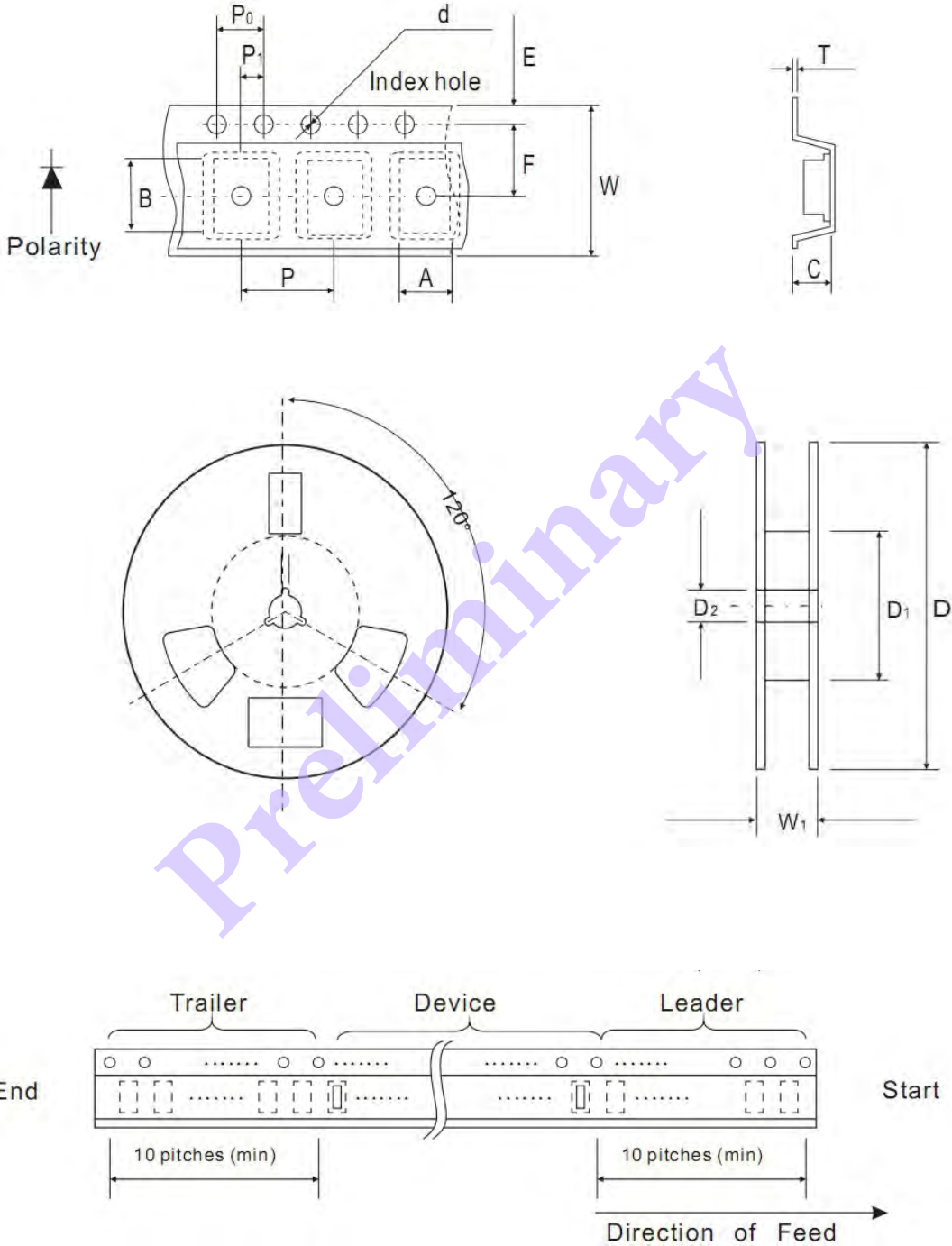


Fig. 7 - CT Dispersion map



PACKING SPECIFICATION



Tape & Reel Dimensions

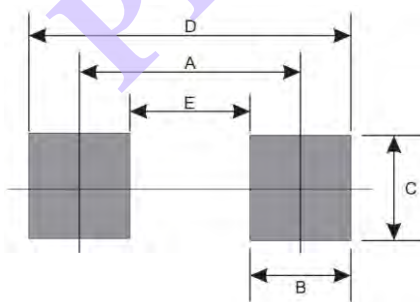
Package	Unit	A	B	C	d	D	D1	D2
0402	mm	0.75± 0.10	1.15± 0.10	0.60± 0.10	1.55± 0.10	178± 1	60 _{MIN}	13.0± 0.20
	inch	0.026± 0.004	0.045± 0.004	0.024± 0.004	0.061± 0.004	7.008± 0.04	2.362 _{MIN}	0.512± 0.008

Package	Unit	E	F	P	P0	P1	T	W	W1
0402	mm	1.7± 0.10	3.50± 0.05	4.00± 0.10	4.00± 0.10	2.00± 0.10	0.22± 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± 0.004	0.009± 0.002	0.315± 0.008	0.531 _{MAX}

Reel Quantity

Package	Reel Size	Qty/Reel
0402	7"	5,000pcs

RECOMMENDED SOLDERING FOOTPRINT



▪ Reflow Soldering

Product Size	Dimension/ mm				
	A	B	C	D	E
0402	0.750	0.500	0.700	1.250	0.250
	0.030"	0.020"	0.028"	0.049"	0.010"