

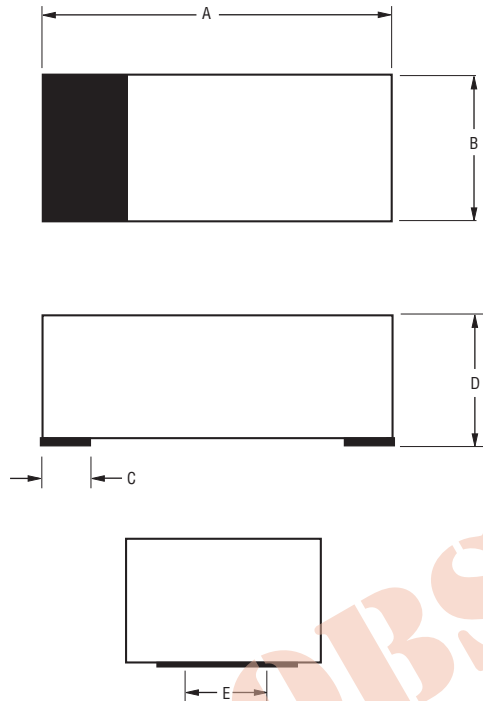
Applications

- Personal Digital Assistants (PDAs)
- Mobile phones & accessories
- Memory card protection
- SIM card port protection
- Portable electronics

CD0603/CD1005-T Surface Mount TVS Diode Series

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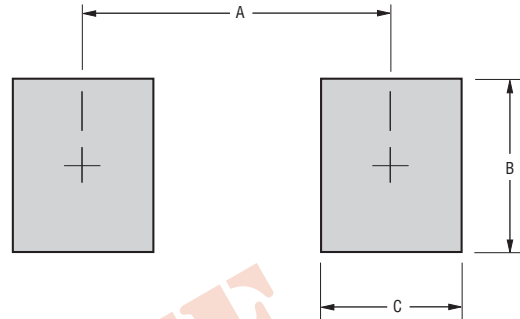
Product Dimensions



Dimension	0603	1005
A	$\frac{1.60 - 1.80}{(0.063 - 0.071)}$	$\frac{2.40 - 2.60}{(0.095 - 0.102)}$
B	$\frac{0.80 - 1.00}{(0.031 - 0.039)}$	$\frac{1.10 - 1.30}{(0.043 - 0.051)}$
C	$\frac{0.45}{(0.018)}$ Typ.	$\frac{0.50}{(0.020)}$ Typ.
D	$\frac{0.70 - 0.85}{(0.027 - 0.033)}$	$\frac{0.70 - 0.90}{(0.027 - 0.035)}$
E	$\frac{0.70}{(0.028)}$ Typ.	$\frac{1.00}{(0.039)}$ Typ.

DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

Recommended Pad Layout



Dimension	0603	1005
A (Max.)	$\frac{1.25}{(0.049)}$	$\frac{2.00}{(0.079)}$
B (Min.)	$\frac{1.00}{(0.039)}$	$\frac{1.3}{(0.051)}$
C (Min.)	$\frac{0.6}{(0.024)}$	$\frac{0.7}{(0.028)}$

DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

Physical Specifications

Case0603(1608) / 1005(2512) Molded plastic
 Terminals Solder plated, solderable per MIL-STD-750,
 Method 2026
 Polarity..... Indicated by cathode band
 Mounting Position..... Any

Typical Part Marking

CD0603-T05C E05
 CD0603-T12C E12
 CD0603-T24C E24
 CD1005-T05C E05
 CD1005-T12C E12
 CD1005-T24C E24

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

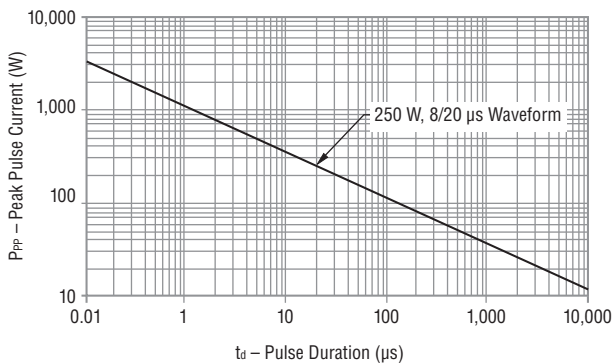
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CD0603/CD1005-T Surface Mount TVS Diode Series

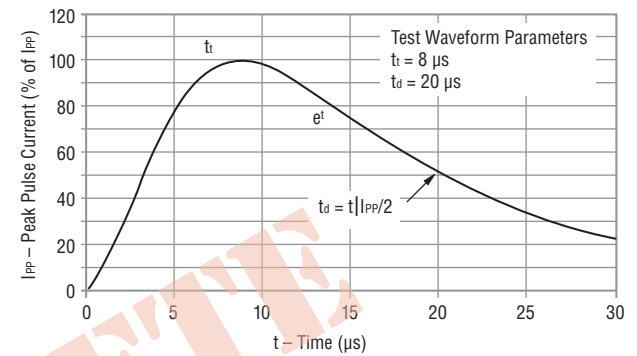
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Rating & Characteristic Curves

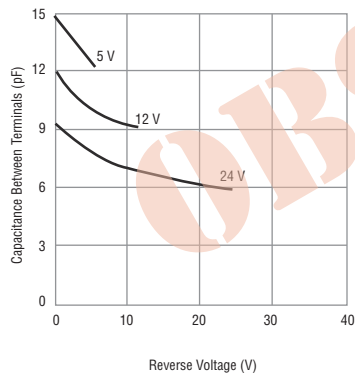
Peak Pulse Power vs. Pulse Time



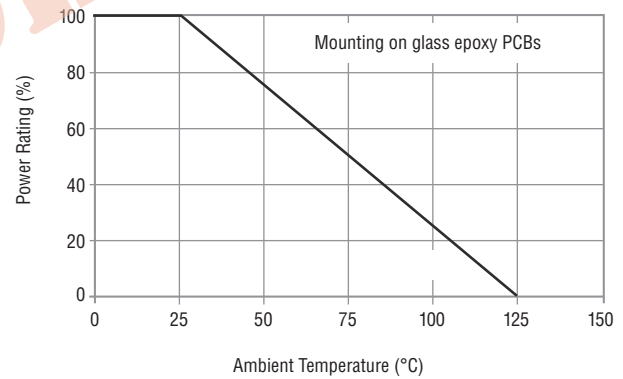
Pulse Waveform



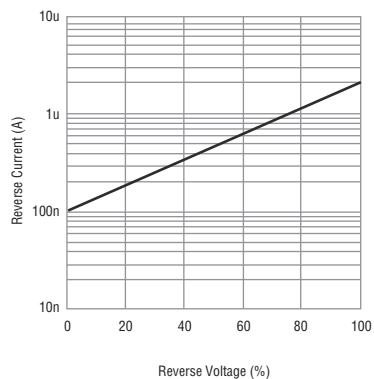
Capacitance Between Terminals



Power Derating Curve



Reverse Characteristics



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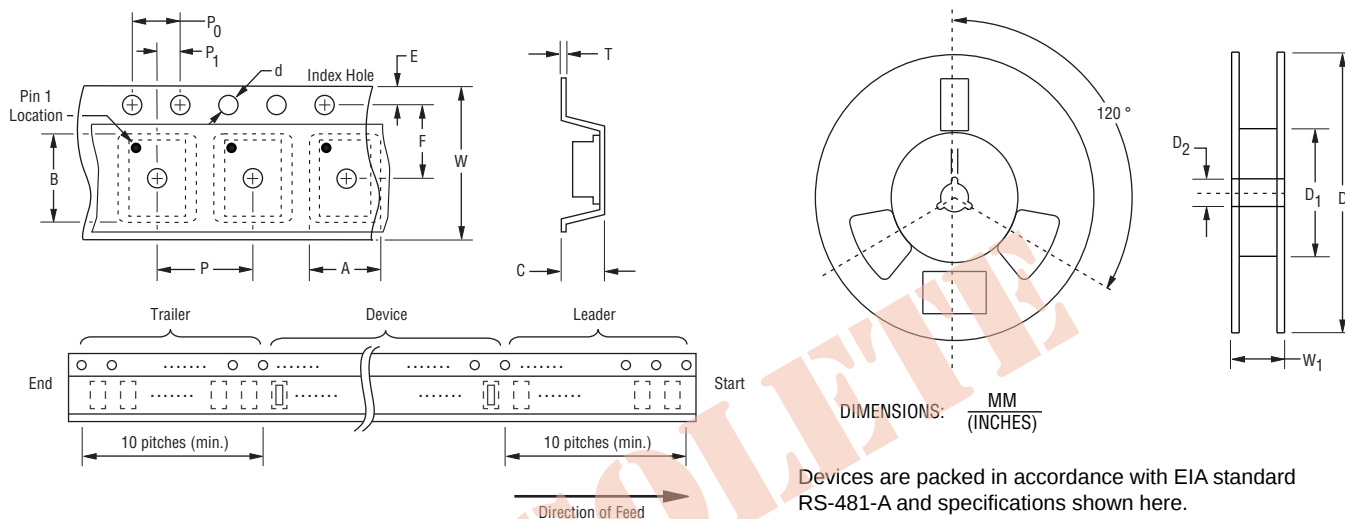
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CD0603/CD1005-T Surface Mount TVS Diode Series

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Packaging Information

The product is dispensed in tape and reel format (see diagram below).



Item	Symbol	0603	1005
Carrier Width	A	1.00 ± 0.10 (0.039 ± 0.004)	1.55 ± 0.10 (0.061 ± 0.004)
Carrier Length	B	1.85 ± 0.10 (0.073 ± 0.004)	2.65 ± 0.10 (0.104 ± 0.004)
Carrier Depth	C	1.00 ± 0.10 (0.039 ± 0.004)	1.05 ± 0.10 (0.041 ± 0.004)
Sprocket Hole	d	1.55 ± 0.05 (0.061 ± 0.002)	1.55 ± 0.10 (0.061 ± 0.004)
Reel Outside Diameter	D	178 (7.008)	178 (7.008)
Reel Inner Diameter	D1	60.0 (2.362) MIN.	60.0 (2.362) MIN.
Feed Hole Diameter	D2	13.0 ± 0.20 (0.512 ± 0.008)	13.0 ± 0.20 (0.512 ± 0.008)
Sprocket Hole Position	E	1.75 ± 0.10 (0.069 ± 0.004)	1.75 ± 0.10 (0.069 ± 0.004)
Punch Hole Position	F	3.50 ± 0.05 (0.138 ± 0.002)	3.50 ± 0.05 (0.138 ± 0.002)
Punch Hole Pitch	P	4.00 ± 0.10 (0.157 ± 0.004)	4.00 ± 0.10 (0.157 ± 0.004)
Sprocket Hole Pitch	P0	4.00 ± 0.10 (0.157 ± 0.004)	4.00 ± 0.10 (0.157 ± 0.004)
Embossment Center	P1	2.00 ± 0.05 (0.079 ± 0.002)	2.00 ± 0.05 (0.079 ± 0.002)
Overall Tape Thickness	T	0.20 ± 0.10 (0.008 ± 0.004)	0.20 ± 0.10 (0.008 ± 0.004)
Tape Width	W	8.00 ± 0.20 (0.315 ± 0.008)	8.00 ± 0.20 (0.315 ± 0.008)
Reel Width	W1	13.5 (0.531) MAX.	13.5 (0.531) MAX.
Quantity per Reel	--	4,000	4,000

REV. 06/21

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