

TVS Diodes - ICTE Low Clamping Specifications - Electrical Characteristics

Part Number	Rated Standoff Voltage Vwm (Volts)	Minimum Breakdown Voltage @1m (Volts)	Maximum Stand By Current @Vwm Id (μ A)	10/1000 μ s Maximum Clamping Voltage @Ippm=1A# Vc Max (Volts)	10/1000 μ s Maximum Clamping Voltage @Ippm=10A# Vc Max (Volts)	10/1000 μ s Rated Peak Impulse Current Ippm# (Amperes)
ICTE-5*	5.0	6.0	300	7.1	7.5	160
ICTE-8	8.0	9.4	25	11.3	11.5	100
ICTE-10	10.0	11.7	2	13.7	14.1	90
ICTE-12	12.0	14.1	2	16.1	16.5	70
ICTE-15	15.0	17.6	2	20.1	20.6	60
ICTE-18	18.0	21.1	2	24.2	25.2	50
ICTE-22	22.0	25.9	2	29.8	32.0	40
ICTE-36	36.0	42.4	2	50.6	54.3	23
ICTE-45	45.0	52.9	2	63.3	70.0	19
ICTE-8C	8.0	9.4	50	11.4	11.6	100
ICTE-10C	10.0	11.7	2	14.1	14.5	90
ICTE-12C	12.0	14.1	2	16.7	17.1	70
ICTE-15C	15.0	17.6	2	20.8	21.4	60
ICTE-18C	18.0	21.2	2	24.8	25.5	50
ICTE-22C	22.0	25.9	2	30.8	32.0	40
ICTE-36C	36.0	42.4	2	50.6	54.3	23
ICTE-45C	45.0	52.9	2	63.3	70.0	19

Metal hermetically sealed (DO13) version of this diode is available upon request.

* ICTE-5 is not available in bidirectional

= See General Information for Impulse Current Waveform.

TVS Diodes - ICTE Low Clamping - ICTE Series Features

ICTE Series Features

- 1500 watt peak pulse power dissipation
- Available in voltages from 5.0V to 45V
- Unidirectional and Bidirectional
- Glass passivated junction
- Very low clamping factor
- Available in bulk or tape and reel (Reel quantity = 1,500 pieces)
- Each device 100% surge tested
- Metal hermetically sealed (DO13) version of this diode is available upon request.

Absolute Maximum Ratings

- Peak pulse power dissipation (Pppm) at 25°C..... 1500W
- Steady state power dissipation at lead temperature = 75°C (Lead length 3/8" min.)..... 5W
- Operating and storage temperatures..... -55°C to + 175°C
- Clamping Factor (CF)..... 1.23 at Ipp = 10A
..... 1.17 at Ipp = 1A

Mechanical Dimensions

