

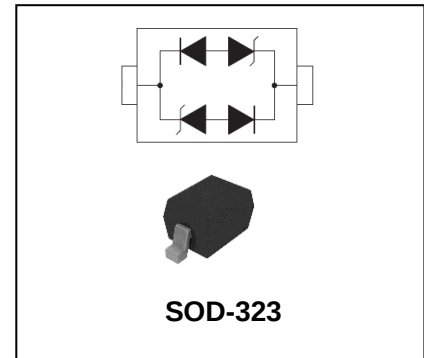
Ultralow Capacitance TVS Array

TDLC03C-36C

FEATURES

- 350 Watts Peak Pulse Power per Line ($t_p = 8/20\mu s$)
- Unidirectional & Bidirectional Configurations
- Replacement for MLV (0805)
- Protects One Power or I/O Port
- ESD Protection > 40 kilovolts
- Low Clamping Voltage
- Available in Multiple Voltage Types Ranging from 3V to 36V
- MSL 1
- Halogen free
- Qualified to AEC-Q101 standards for high reliability

HF



APPLICATIONS

- Ethernet - 10/100/1000 Base T
- Cellular Phones
- Handheld - Wireless Systems
- Personal Digital Assistant (PDA)
- USB Interface

ORDERING INFORMATION

Type No.	Marking	Package Code
TDLC03C	03C	SOD-323
TDLC05C	C05C	SOD-323
TDLC08C	8C	SOD-323
TDLC12C	2C	SOD-323
TDLC15C	6C	SOD-323
TDLC24C	4C	SOD-323
TDLC36C	36C	SOD-323

MAXIMUM RATING @ $T_a = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Limits	Unit
Peak pulse power dissipation($t_p=8/20\mu s$) -SeeFigure 1	P_{PP}	350	W
Operating temperature	T_j	-55 to+150	$^\circ\text{C}$
Storage temperature	T_{STG}	-55 to+150	$^\circ\text{C}$

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ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

PART NUMBER	Rated Stand-off Voltage V_{WM} VOLTS	Minimum Breakdown Voltage @ 1mA $V_{(BR)}$ VOLTS	Maximum Clamping Voltage (See Fig. 2) @ $I_P = 1A$ V_C VOLTS	Maximum Clamping Voltage (See Fig. 2) @ 8/20 μs V_C @ I_{PP}	Maximum Leakage Current @ V_{WM} I_D μA	Typical Capacitance @ 0V, 1MHz C pF
TDLC03C	3.3	4.0	7.0	19.0V @ 20.0A	5	1
TDLC05C	5.0	6.0	9.8	20V @ 20A	5	1
TDLC08C	8.0	8.5	13.4	18.5V @ 17.0A	2	1
TDLC12C	12.0	13.3	19.0	28.6V @ 11.0A	1	1
TDLC15C	15.0	16.7	24.0	31.8V @ 10.0A	1	1
TDLC24C	24.0	26.7	43.0	56.0V @ 6.0A	1	1
TDLC36C	36.0	40.0	48.0	90.0V @ 4.0A	1	1.5

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

FIGURE 1
PEAK PULSE POWER VS PULSE TIME

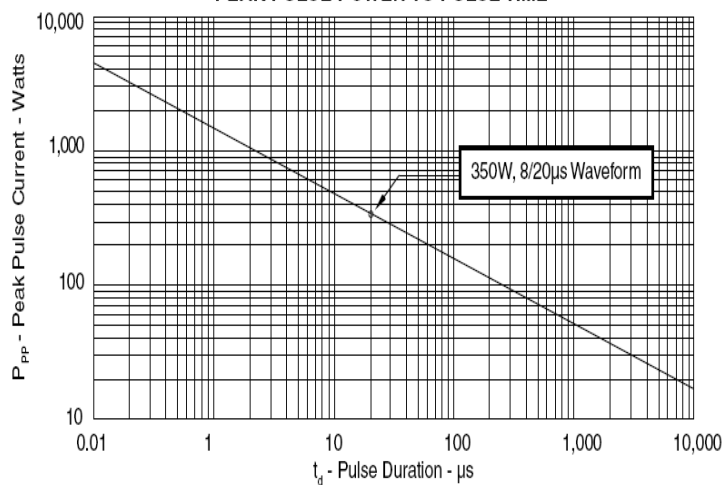
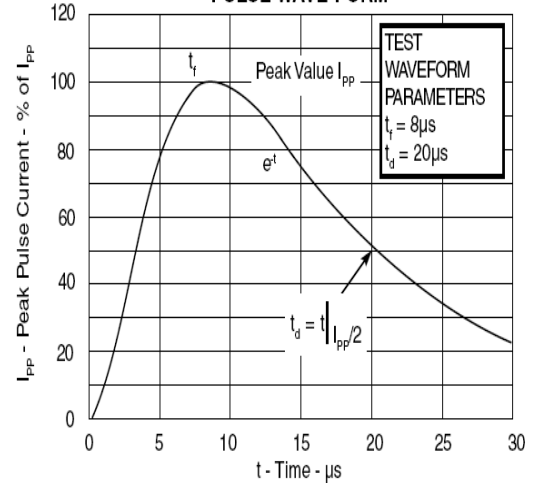


FIGURE 2
PULSE WAVE FORM



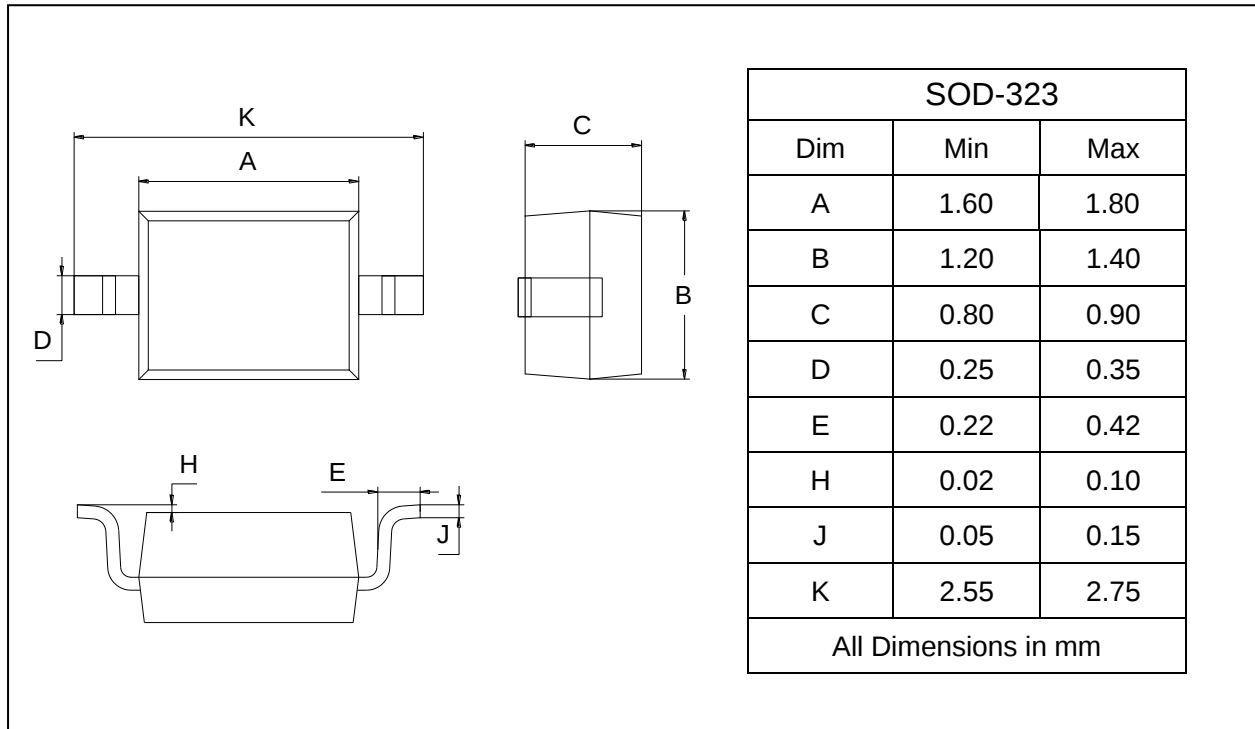
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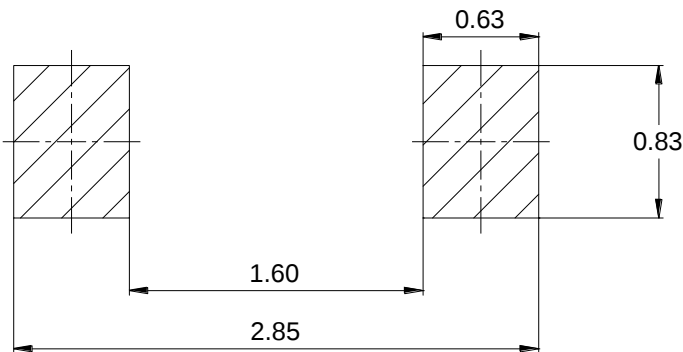
PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



SOLDERING FOOTPRINT



Unit: mm

PACKAGE INFORMATION

Device	Package	Shipping
TDLC03C-36C	SOD-323	3000pcs / Tape & Reel