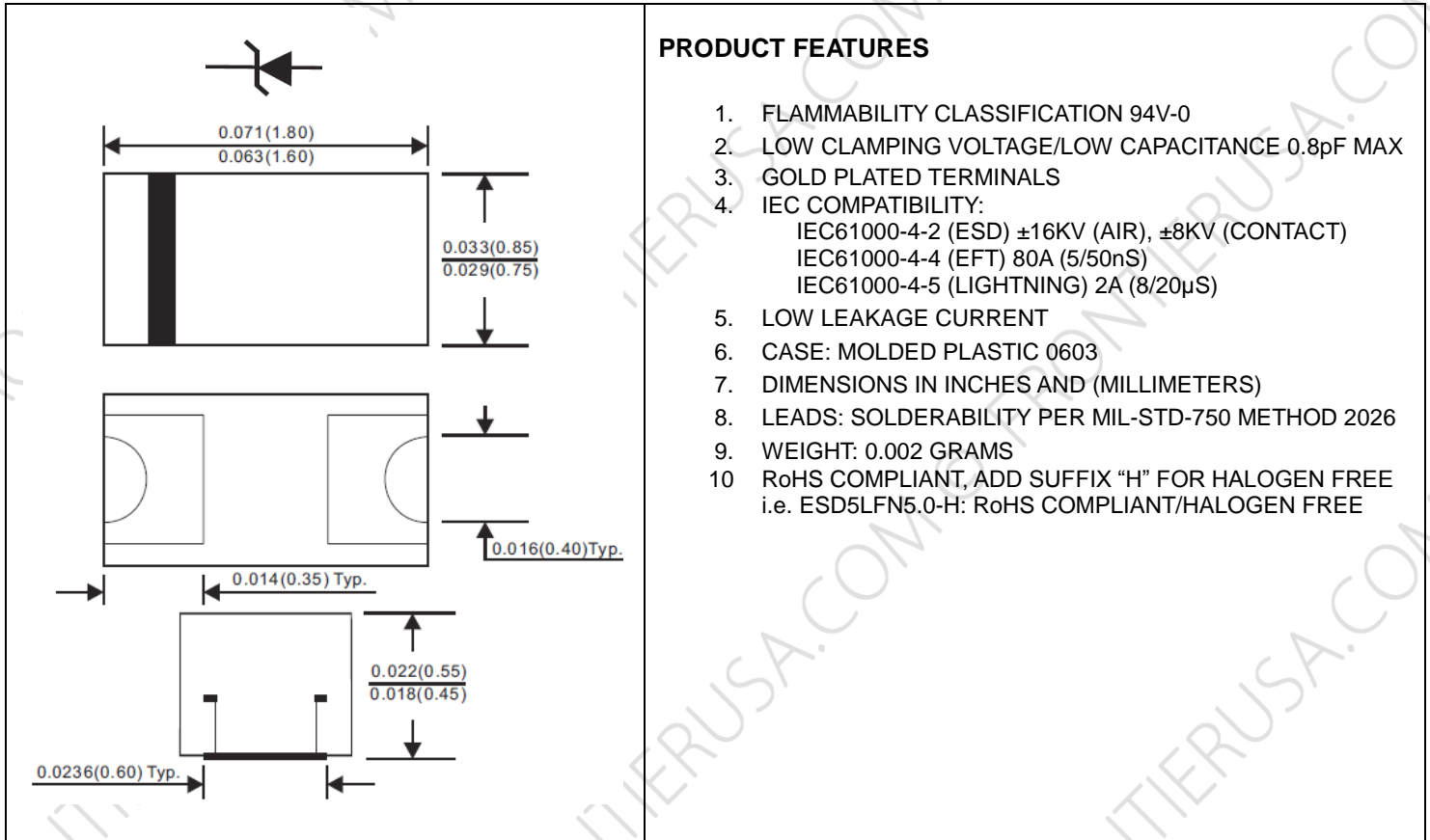


40W LOW CAPACITANCE SMD UNI-DIRECTIONAL TVS FOR ESD PROTECTION DIODES, 5V



ELECTRICAL CHARACTERISTICS

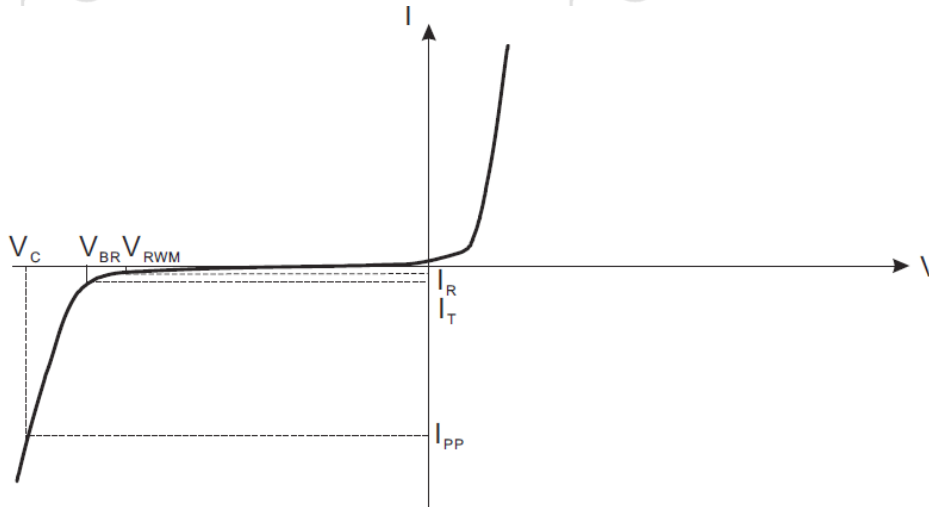
MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED) AND ELECTRICAL CHARACTERISTICS

RATING	SYMBOL		UNITS
PEAK PULSE POWER, $t_p=8/20 \mu\text{S}$	P_{PP}	40	W
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO +150	$^\circ\text{C}$
OPERATING JUNCTION TEMPERATURE RANGE	T_J	- 55 TO +125	$^\circ\text{C}$

PART NUMBER	Max. V_{RWM} (V)	Max I_R @ V_{RWM} (μA)	Min V_{BR} @ $I_T=1\text{mA}$ (A)	Max V_C @ $I_{PP}=2\text{A}$ (V)	Max I_{PP} (A)	MAX C_J (pF)	MARKING
ESD5LFN5.0	5	2	6	20	2	0.8	P

- NOTE : 1. SURGE CURRENT WAVEFORM PER FIG 1.
2. V_{BR} IS MEASURED AT AMBIENT TEMPERATURE OF 25°C .
3. UNLESS SPECIFIED OTHERWISE, THE ELECTRICAL TEST IS PERFORMED AT $T_A=25^\circ\text{C}$, $V_F=1.2\text{V}@I_F=15\text{mA}$

RATINGS AND CHARACTERISTIC CURVES



Uni-Directional TVS

- V_C : Clamping Voltage @ I_{PP}
- I_{PP} : Maximum Reverse Peak Pulse Current
- V_{RWM} : Maximum Working Peak Reverse voltage
- I_R : Maximum Reverse Leakage Current @ V_{RWM}
- V_{BR} : Breakdown voltage @ I_T
- I_T : Test Current
- P_{PP} : Peak Pulse Power
- C_J : Max. Capacitance @ $V_R = 0V$ and $f = 1MHz$

FIG.1- 8 X 20us PULSE WAVEFORM

FIG.2- CLAMPING VOLTAGE VS. PEAK PULSE CURRENT

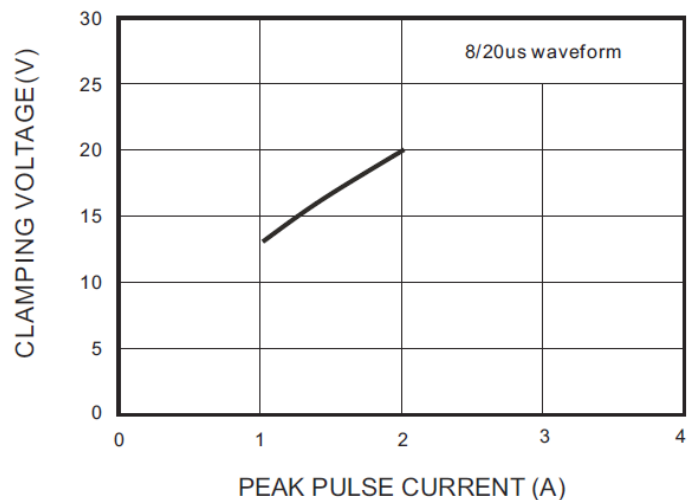
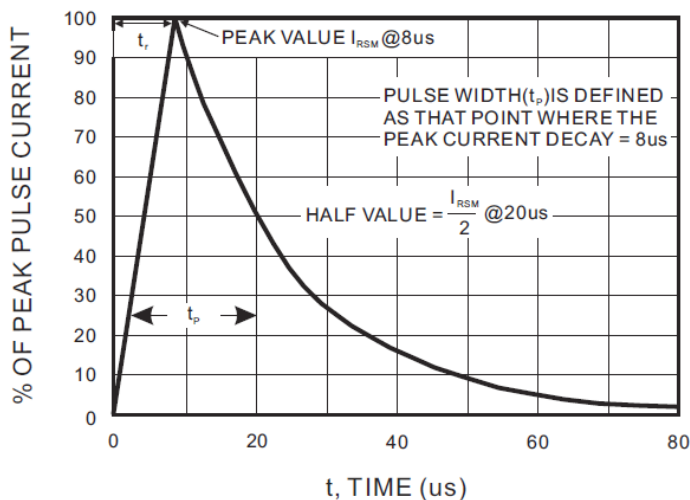
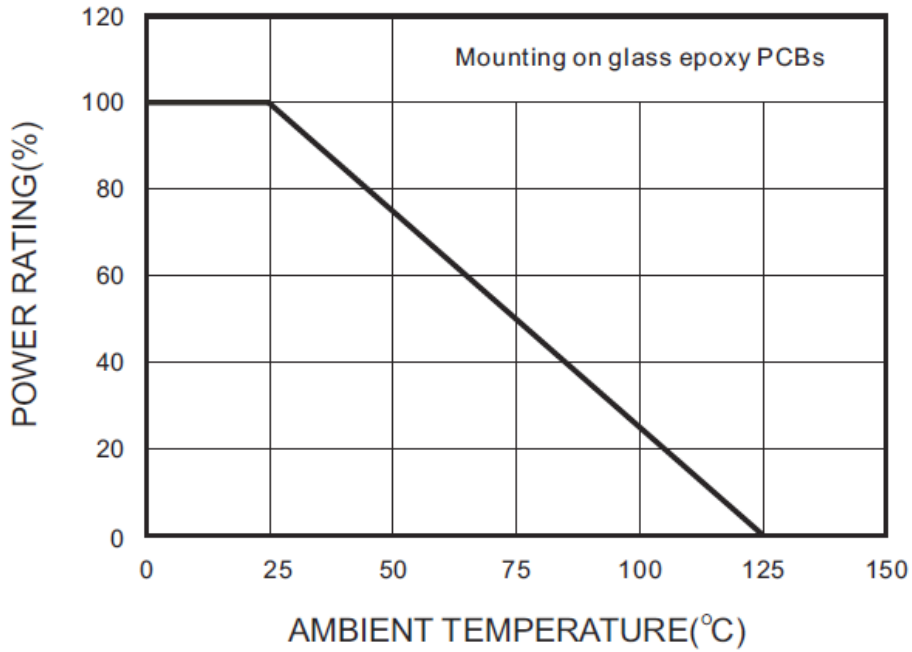
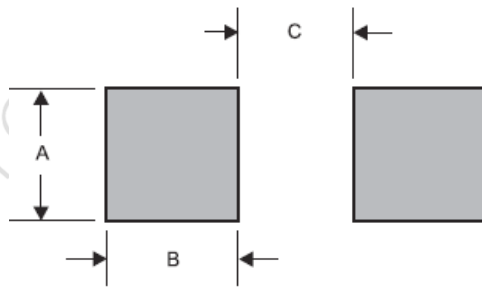


FIG.3- POWER RATING DERATING CURVE



LAYOUT RECOMMENDATION



PACKAGE	A	B	C
0603	0.032 (0.80)	0.028 (0.70)	0.036 (0.90)