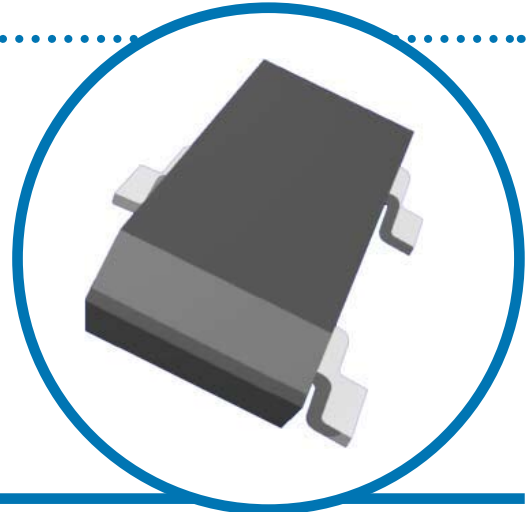


Surface Mount SOT-23 TVS Diode Array

QDN007LF Series

OBSOLETE

- ESD protection > 40KV
- 500 Watts peak pulse power per line (tp=8/20µs)
- Available in multiple voltage types: 3.3V to 36V
- Unidirectional & bidirectional configurations
- RoHS compliant



Applications

Wireless Communication Circuits
RS-422, RS-432, RS-485
Portable Electronics
Cellular Phones

IEC Compatibility

61000-4-2 (ESD): Air - 15kV, Contact - 8kV
61000-4-4 (EFT): 40A - 5/50ns
61000-4-5 (Surge): 12A, 8/20µs Level 2 (Line-Ground)
and Level 3 (Line-Line)

Characteristic Data

	Rated Standoff Voltage V_{WM} (Volts)	Minimum Breakdown Voltage $V_{(BR)}$ (Volts)	Maximum Clamping Voltage $I_p = 1A$ (Volts)	Maximum Pulse Clamping Voltage $t_r - t_d$	Maximum Leakage Current @ V_{WM} I_D (µA)	Typical Capacitance C $V=0$ $f = 1MHz$ (pF)
QDN007LF-U03 QDN007LF-B03	3.3	4.0	6.5 7.0	10.9V @ 43.0A	125	500 300
QDN007LF-U05 QDN007LF-B05	5.0	6.0	9.8	13.5V @ 42.0A	20	350 210
QDN007LF-U08 QDN007LF-B08	8.0	8.5	13.4	16.9V @ 34.0A	10	250 150
QDN007LF-U12 QDN007LF-B12	12.0	13.3	19.0	25.9V @ 21.0A	2	150 90
QDN007LF-U15 QDN007LF-B15	15.0	16.7	24.0	30.0V @ 17.0A	1	100 60
QDN007LF-U24 QDN007LF-B24	24.0	26.7	43.0	49.0V @ 12.0A	1	88 63
QDN007LF-U36 QDN007LF-B36	36.0	40.0	51.0	76.8V @ 9.0A	1	80 60

General Note

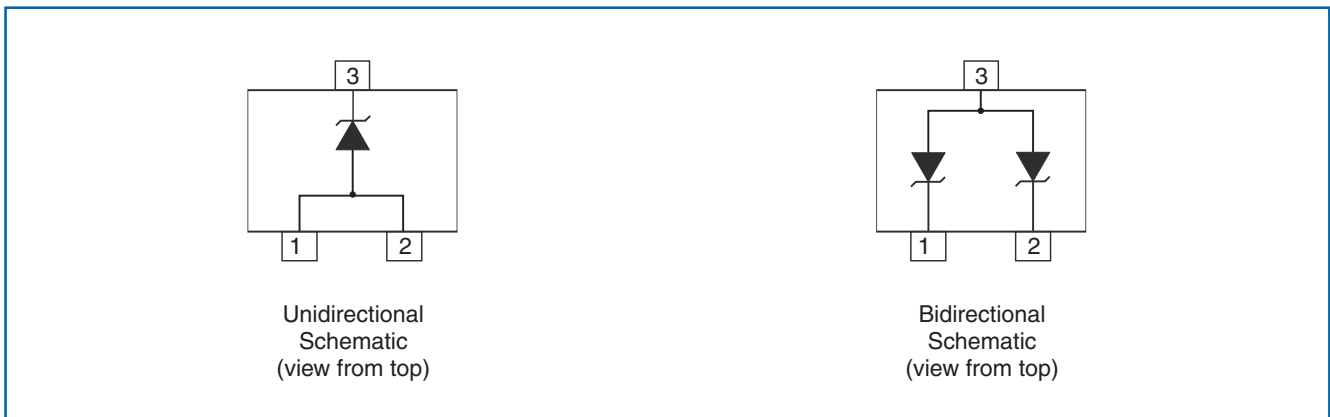
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OBSOLETE

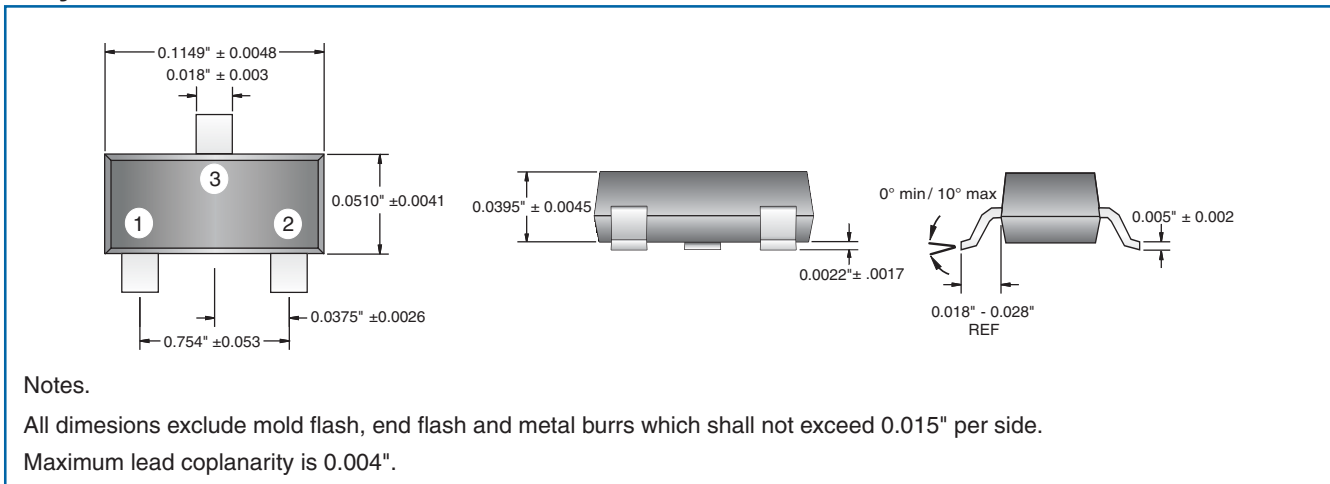
Maximum Ratings

Peak Pulse Power ($t_p = 8/20\mu s$)	Operating Temperature	Storage Temperature	Forward Voltage 50mA 300 μs - Square Wave
P_{PP}	T_j	T_{STG}	V_F
500W	-55°C to +150°C	-55°C to +150°C	1.5

Schematic Data



Physical Data

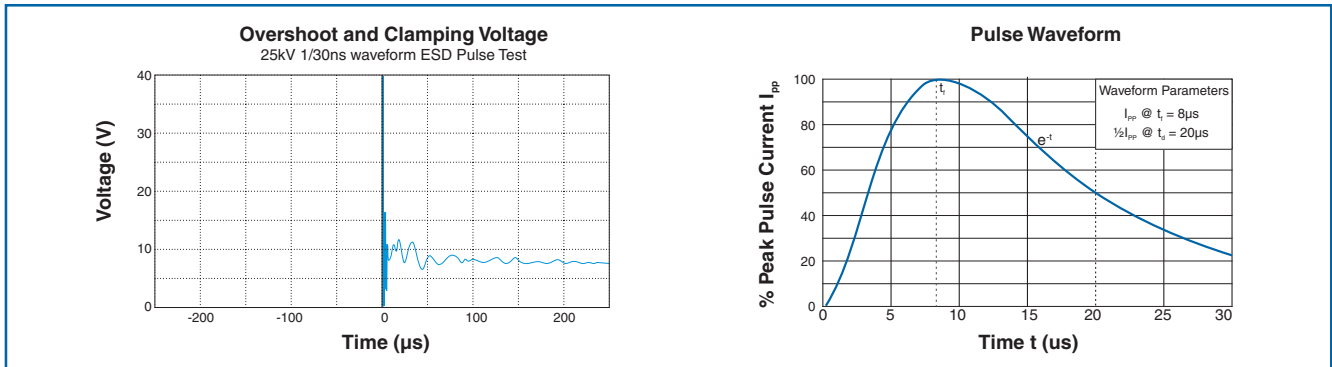


General Note

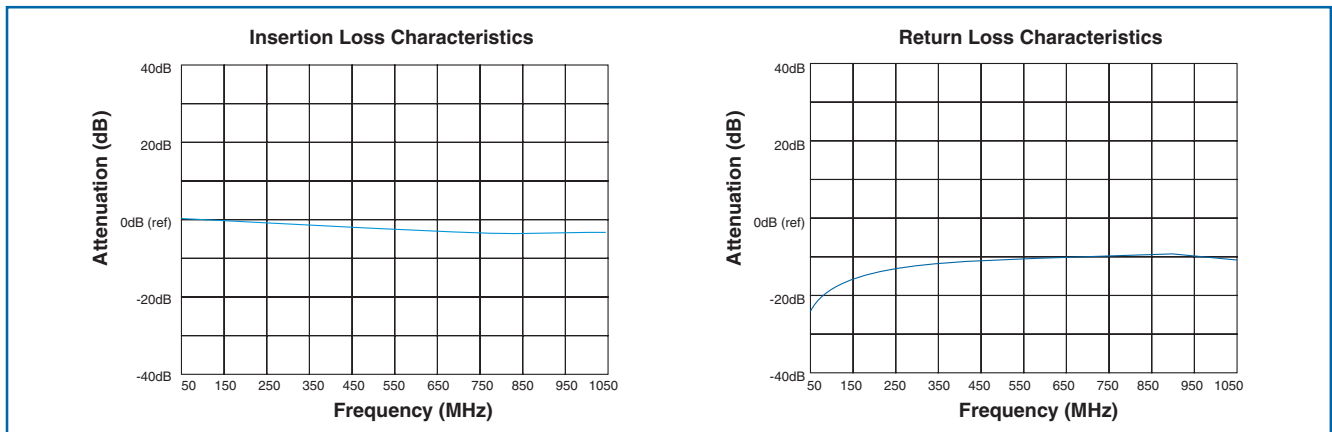
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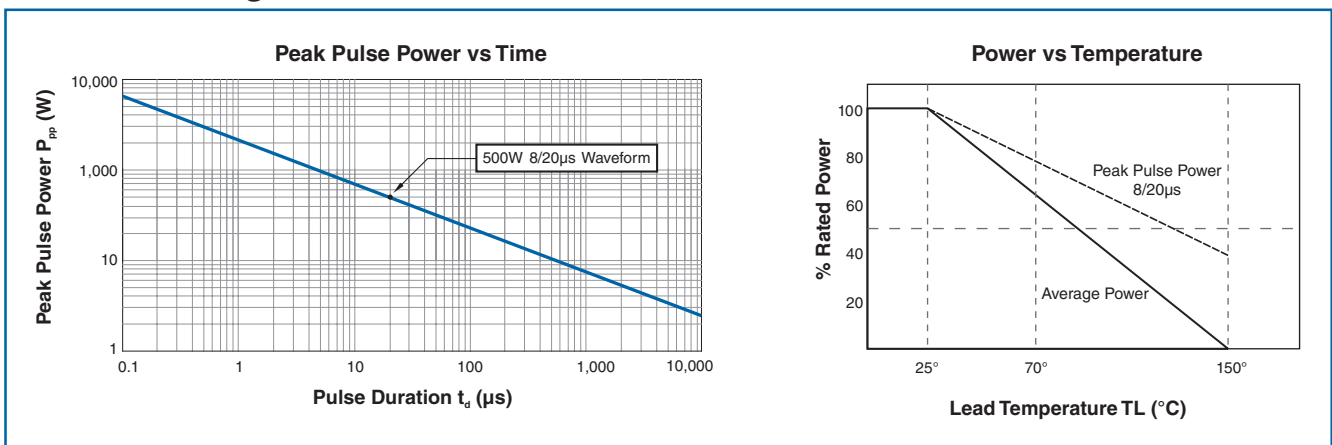
ESD Pulse Data



Loss Characteristic Data



Power Rating Data



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OBSOLETE

Ordering Data

Prefix **DNR** - **QDN007** - **B** **05** - **T13**

Model
QDN007LF = SOT23 TVS Diode Network with with 100% matte tin plated terminations

Schematic
U = Unidirectional
B = Bidirectional

Characteristic Code
03 = 3.3V Standoff Voltage
05 = 5.0V Standoff Voltage
08 = 8.0V Standoff Voltage
12 = 12.0V Standoff Voltage
15 = 15.0V Standoff Voltage
24 = 24.0V Standoff Voltage
36 = 36.0V Standoff Voltage

Packaging
T07 = 7" Reel (3,000 count)
T13 = 13" Reel (10,000 count)

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