Feature

- 200W peak pulse power per line (t_P = 8/20μs)
- SOD-523 package
- Replacement for MLV(0603)
- Unidirectional configurations
- Response Time is Typically < 1 ns
- ESD protection > 40 kV
- Low clamping voltage
- RoHS compliant
- Transient protection for data lines to IEC 61000-4-2(ESD) ±15KV(air), ±8KV(contact); IEC 61000-4-4 (EFT) 40A (5/50ns)

Applications

- Cellular phones
- Portable devices
- Digital cameras
- Power supplies

Electrical characteristics per line@25℃(unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse stand-off voltage	V_{RWM}				5	V
Reverse Breakdown voltage	V_{BR}	I_t = 1mA	6.2			V
Reverse Leakage Current	I_R	V_{RWM} = 5V T=25℃			0.05	μA
Clamping Voltage	V_C	I_{PP} = 5A t_P = 8/20μs			9.8	V
Clamping Voltage	V_C	I_{PP}=9.4A t_P = 8/20μs			12.0	V
Junction Capacitance	C_j	V_R=0V f = 1MHz		100		pF

Absolute maximum rating @25℃

Rating	Symbol	Value	Units
Unidirectional Peak Pulse Power (t_p=8/20μS)	P_{pp}	200	W
Operating Temperature	T_J	-55 to +150	℃
Storage Temperature	T_{STG}	-55 to +150	℃

Typical Characteristics

FIGURE 1
PEAK PULSE POWER VS PULSE TIME

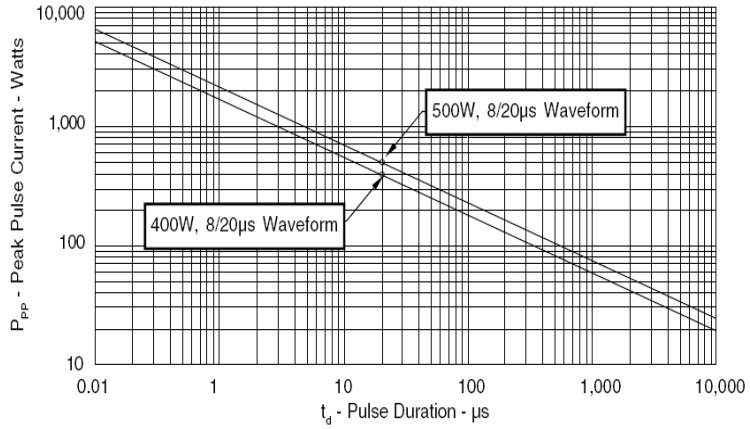


FIGURE 2
PULSE WAVE FORM

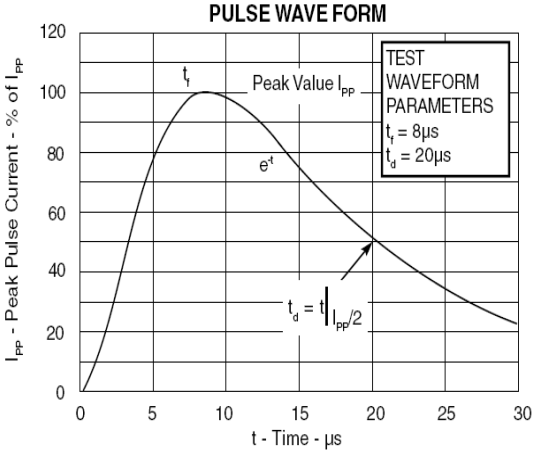
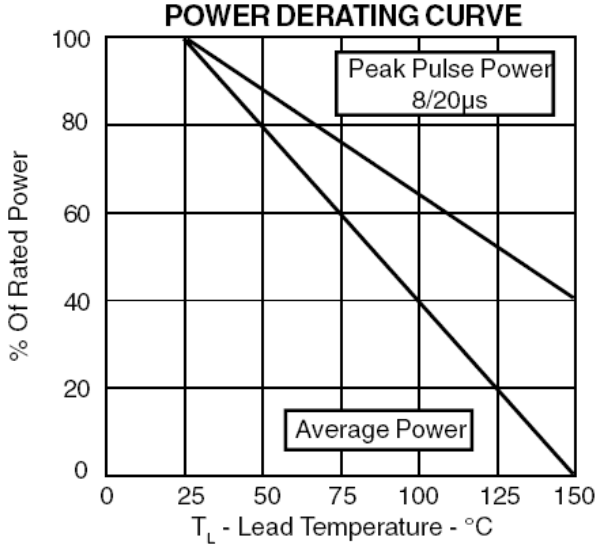
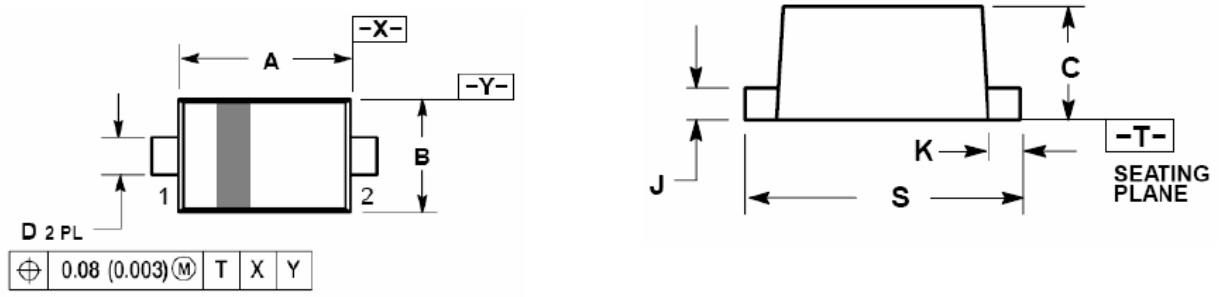


FIGURE 3
POWER DERATING CURVE



Product dimension and pad size



Dim	Millimeters			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	1.10	1.20	1.30	0.043	0.047	0.051
B	0.70	0.80	0.90	0.028	0.032	0.035
C	0.50	0.60	0.70	0.020	0.024	0.028
D	0.25	0.30	0.35	0.010	0.012	0.014
J	0.07	0.14	0.20	0.0028	0.0055	0.0079
K	0.15	0.20	0.25	0.006	0.008	0.010
S	1.50	1.60	1.70	0.059	0.063	0.067

Revision History

Revision	Date	Changes
1.0	2008-7-3	-