

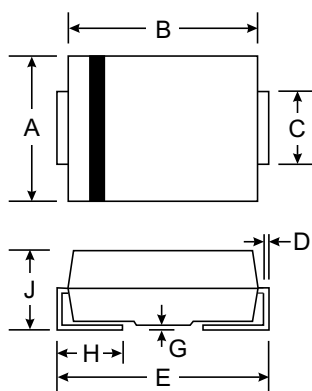
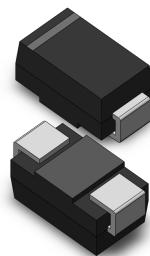
VOLTAGE RANGE: 8.5 - 78V
POWER: 400Watts

Features

- Glass passivated
- High maximum operating temperature
- Low leakage current
- Excellent stability
- UL 94V-O classified plastic package
- Transient suppressor stand-off voltage range:
8.5 to 78 V for 26 types
Supplied in 12 mm embossed tape.

Mechanical Data

- Case: SMA/DO-214AC, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)



SMA(DO-214AC)		
Dim	Min	Max
A	2.29	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.80	5.59
G	0.10	0.20
H	0.76	1.52
J	2.01	2.62
All Dimensions in mm		

Maximum Ratings T_A = 25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
P _{RSM}	non-repetitive peak reverse power dissipation	10/1000 μs exponential pulse; T _j = 25 °C prior to surge; see Figs.3 and 5	400	W

ELECTRICAL CHARACTERISTICS

Total series

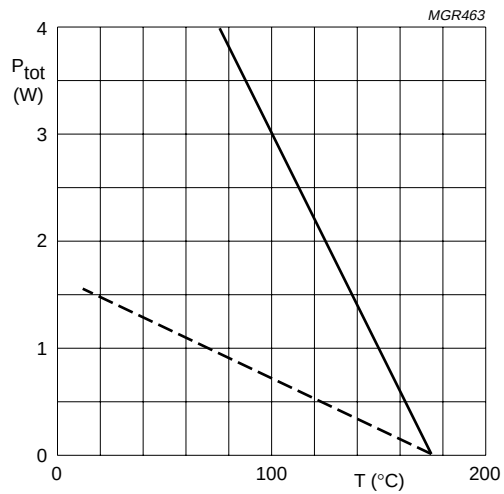
T_j = 25 °C unless otherwise specified.

SYMBOL	PARAMETER	CONDITIONS	MIN.	MAX.	UNIT
V _F	forward voltage	I _F = 0.5 A	–	1.2	V
T _{stg}	storage temperature		–65	+175	°C
T _j	junction temperature		–65	+175	°C

DEVICE	REVERSE STAND-OFF VOLTAGE	BREAKDOWN VOLTAGE		REVERSE VOLTAGE (max) @ I_{RSM} (CLAMPING VOLTAGE)	REVERSE SURGE CURRENT (max)	REVERSE LEAKAGE CURRENT (max) @ V_{RWM}
	V_{RWM} (V)	V_{BR} min. (V)	I_T (mA)	V_{RSM} (V)	I_{RSM} (A)	I_R (μA)
PSMA8.5A	8.5	9.44	1	14.4	27.8	5.0
PSMA9.0A	9.0	10.0	1	15.4	26.0	2.5
PSMA10A	10	11.1	1	17.0	23.5	2.5
PSMA11A	11	12.2	1	18.2	22.0	2.5
PSMA12A	12	13.3	1	19.9	20.1	2.5
PSMA13A	13	14.4	1	21.5	18.6	2.5
PSMA14A	14	15.6	1	23.2	17.2	2.5
PSMA15A	15	16.7	1	24.4	16.4	2.5
PSMA16A	16	17.8	1	26.0	15.4	2.5
PSMA17A	17	18.9	1	27.6	14.5	2.5
PSMA18A	18	20.0	1	29.2	13.7	2.5
PSMA20A	20	22.2	1	32.4	12.3	2.5
PSMA22A	22	24.4	1	35.5	11.3	2.5
PSMA24A	24	26.7	1	38.9	10.3	2.5
PSMA26A	26	28.9	1	42.1	9.5	2.5
PSMA28A	28	31.1	1	45.4	8.8	2.5
PSMA30A	30	33.3	1	48.4	8.3	2.5
PSMA33A	33	36.7	1	53.3	7.5	2.5
PSMA36A	36	40.0	1	58.1	6.9	2.5
PSMA40A	40	44.4	1	64.5	6.2	2.5
PSMA43A	43	47.8	1	69.4	5.8	2.5
PSMA45A	45	50.0	1	72.2	5.5	2.5
PSMA48A	48	53.3	1	77.4	5.2	2.5
PSMA51A	51	56.7	1	82.4	4.9	2.5
PSMA54A	54	60.0	1	87.1	4.6	2.5
PSMA58A	58	64.4	1	93.6	4.3	2.5
PSMA60A	60	66.7	1	96.8	4.1	2.5
PSMA64A	64	71.1	1	103.0	3.9	2.5
PSMA70A	70	77.8	1	113.0	3.5	2.5
PSMA75A	75	83.3	1	121.0	3.3	2.5
PSMA78A	78	86.7	1	126.0	3.2	2.5

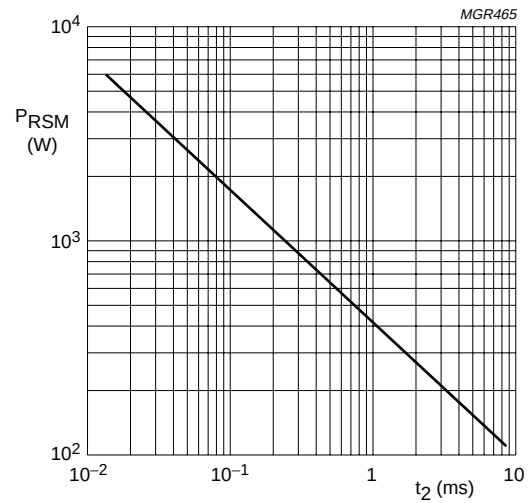
Note

1. Tolerance and Voltage Designation: Tolerance designation - The type number listed indicates a tolerance of $\pm 5\%$



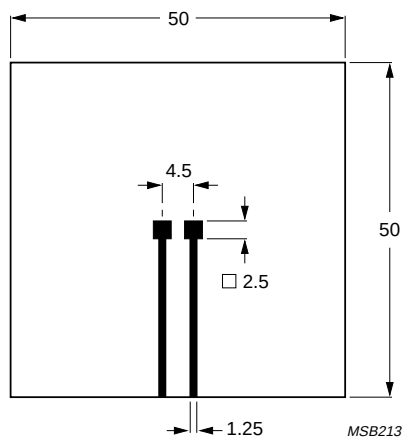
Solid line: tie-point temperature.
Dotted line: ambient temperature; device mounted on an Al_2O_3 printed-circuit board as shown in Fig.4.

Fig.2 Maximum total power dissipation as a function of temperature.



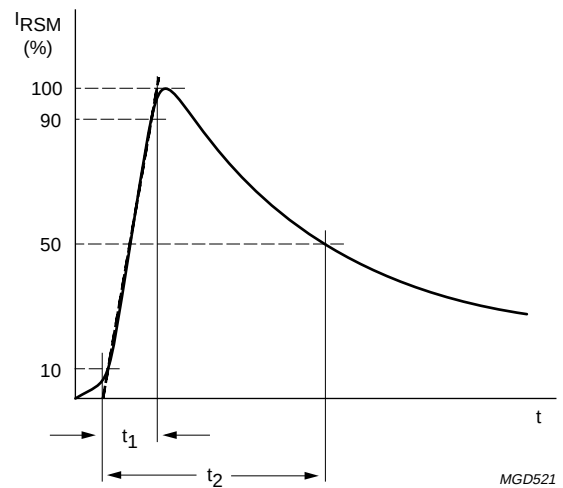
$T_j = 25^{\circ}\text{C}$ prior to surge.

Fig.3 Maximum non-repetitive peak reverse power dissipation as a function of pulse duration (exponential pulse).



Dimensions in mm.

Fig.4 Printed-circuit board for surface mounting.



In accordance with "IEC 60-1, Section 8".

$t_1 = 10 \mu\text{s}$.

$t_2 = 1000 \mu\text{s}$.

Fig.5 Non-repetitive peak reverse current pulse definition.