

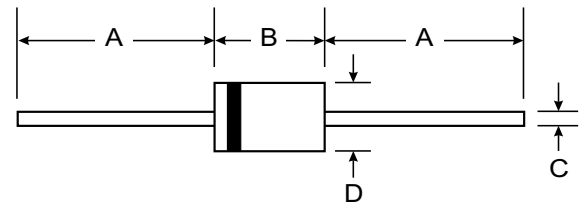
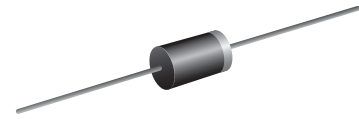
VOLTAGE RANGE: 5.0 - 50V
POWER: 500Watts

Features

- 500W Peak Pulse Surge reverse capability on 10/1000 μ s waveform
- Excellent clamping capability
- Low incremental surge resistance
- Fast response time : typically less than 1.0 ns from 0 volts to BV

Mechanical Data

- Case : DO-15 Molded plastic
- Epoxy : UL94V-0 rate flame retardant
- Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 0.465 gram



DO-15		
Dim	Min	Max
A	25.40	—
B	5.50	7.62
C	0.686	0.889
D	2.60	3.60
All Dimensions in mm		

Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Pulse Power Dissipation on 10/1000 μ s waveform (Note 1, Figure 1)	PPPM	Minimum 500	Watts
Steady State Power Dissipation at $T_L = 75^\circ\text{C}$ Lead Lengths 0.375", (9.5mm)	P _D	1.0	Watts
Peak Forward Surge Current on 10/1000 μ s Waveform (Fig. 3, Note 1)	I _{FSM}	See Table 1.	Amps.
Operating and Storage Temperature Range	T _J , T _{STG}	- 65 to + 175	$^\circ\text{C}$

Note :

(1) Non-repetitive Current pulse, per Fig. 5 and derated above $T_a = 25^\circ\text{C}$ per Fig. 2



ELECTRICAL CHARACTERISTICS Rating at 25 °C ambient temperature unless otherwise specified

TYPE	Breakdown Voltage @ I_t		Reverse Stand-off Voltage V_{RWM}	Maximum Reverse Leakage @ V_{RWM} I_R	Maximum Clamping Voltage @ $I_{RSM}=5A$ V_{RSM}	Maximum Reverse Current I_{RSM}	Maximum Junction Capacitance @ 0 Volt pF	Working Inverse Blocking Voltage V_{WIB}	Max. Inverse Blocking Current @ V_{WIB} I_{IB}	Peak Inverse Blocking Voltage V_{PIB}
	V_{BR} (V)	I_t								
	Min.	(mA)								
SAC5.0	7.6	1.0	5.0	300	10.0	44	50	75	1.0	100
SAC6.0	7.9	1.0	6.0	300	11.2	41	50	75	1.0	100
SAC7.0	8.3	1.0	7.0	300	12.6	38	50	75	1.0	100
SAC8.0	8.9	1.0	8.0	100	13.4	36	50	75	1.0	100
SAC8.5	9.4	1.0	8.5	50	14.0	34	50	75	1.0	100
SAC10	11.1	1.0	10	5.0	16.3	29	50	75	1.0	100
SAC12	13.3	1.0	12	5.0	19.0	25	50	75	1.0	100
SAC15	16.7	1.0	15	5.0	23.6	20	50	75	1.0	100
SAC18	20.0	1.0	18	5.0	28.8	15	50	75	1.0	100
SAC22	24.4	1.0	22	5.0	35.4	14	50	75	1.0	100
SAC26	28.9	1.0	26	5.0	42.3	11.1	50	75	1.0	100
SAC30	33.3	1.0	30	5.0	48.6	10	50	75	1.0	100
SAC36	40.0	1.0	36	5.0	60.0	8.6	50	75	1.0	100
SAC45	50.0	1.0	45	5.0	77.0	6.8	50	150	1.0	200
SAC50	55.5	1.0	50	5.0	88.0	5.8	50	150	1.0	200

FIG.1 - PEAK PULSE POWER RATING CURVE

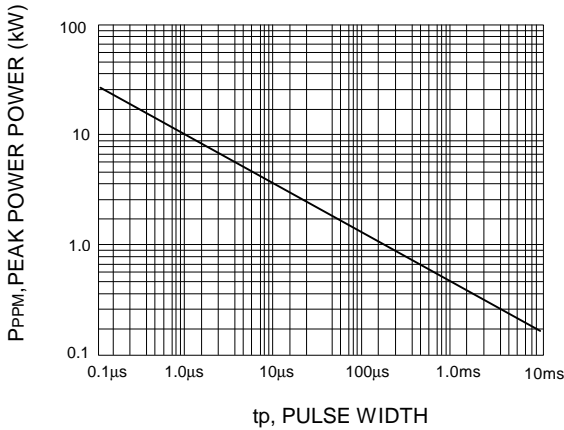


FIG.2 - PULSE DERATING CURVE

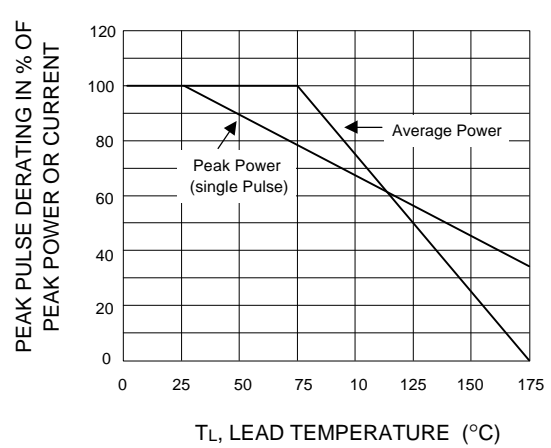


FIG.3 - PULSE WAVEFORM

