TRANSIENT SUPPRESSION MODULES
S60KS 200C S704-15K36 S704-15K36T

FEATURES:

- Cast Epoxy Case
- Hermetic Composition
- Military Environment
- MIL-STD-704, -1399

DESCRIPTION

SemiconComponents manufactures a broad product line of transient suppression diodes in many case styles, voltage and power ratings. Series, parallel, and series parallel arrays of these devices suitably matched and packaged will result in an almost endless number of special purpose, higher power suppression modules. This data sheet describes several of the more common.

MAXIMUM RATINGS: (TA -25°C)

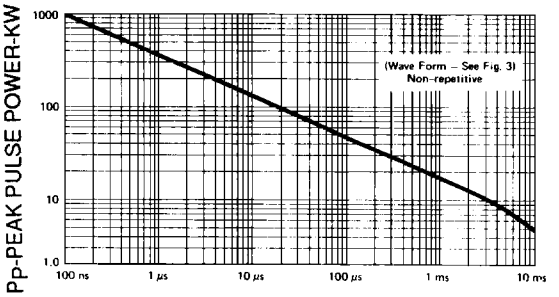
	S60KS200C CASE 1	S704-15K36 CASE 2	S704-15K36T CASE 3
Peak Pulse Power Dissipation	†15KW	††15KW	††15KW
Average Power Dissipation	10 Watts	10 Watts	10 Watts
t clamping (0 Volts to BV)	1 x 10^{-8}sec	1x10^{-12} sec	1x10^{-12} sec
t opr and t stg Range	-65°C to +175°C (ALL TYPES)		
Forward Surge (1/2 60 Hz)	N/A	300 Amps	300 Amps

ELECTRICAL CHARACTERISTICS: (TA -25°C)

		Fig. 3	Fig. 4	Fig. 4
Reverse Standoff Voltage	V_R	180 Volt	31.5 Volts	31.5 Volts
Maximum Reverse Leakage at VR	I_R	10µA	100µA	500µA
Min. Breakdown Voltage at 1 mA	BV	200 Volt	N/A	N/A
Min. Breakdown Voltage at 10.0 mA	BV	N/A	36 Volts	36 Volts
Maximum Clamping Voltage at I_{PP}	V_C	335 Volt	51 Volts	51 Volts
Maximum Peak Pulse Current	I_{PP}	180 Amp	300 Amps	300 Amps
Maximum Forward Voltage at 100 Amps	V_F	**N/A	3.0 Volts	15.0 Volts

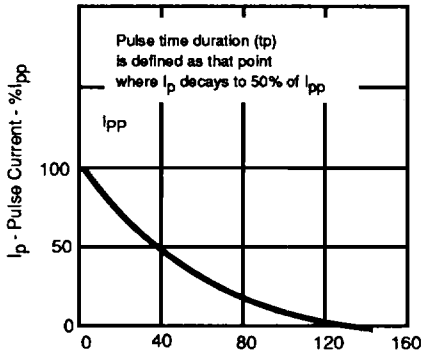
† See Figure No. 1
†† See Figure No. 2
* S60KS200C has BV max. of 225 V @ 1 mA IR
** S60KS200C is Bipolar Device

FIG 1



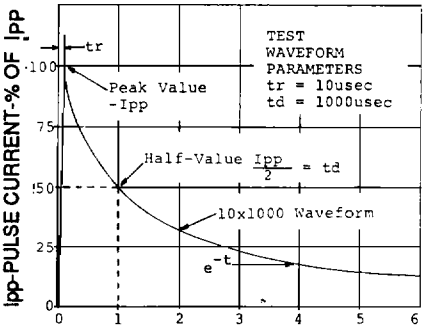
t_d - Pulse Time - sec
Peak Pulse Power vs Pulse Time

FIG 3



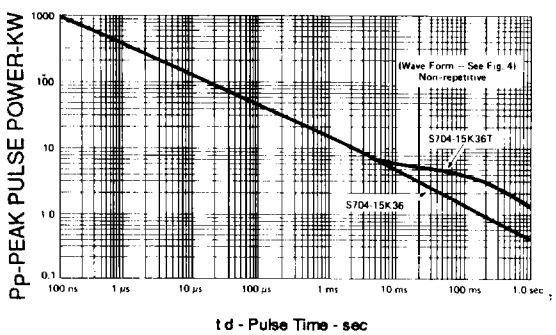
t - time - 4 sec
Pulse Wave form
S60KS200C

FIG 4



T- TIME- MSEC
PULSE WAVE FORM
S704-15K36, and 15K36T

FIG 2



t d - Pulse Time - sec
Peak Pulse Power vs Pulse Time