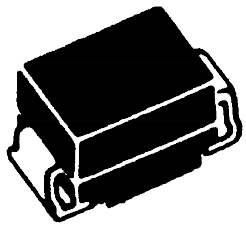
SGS-THOMSON MICROELECTRONICS

SM4T6V8,A/220,A
SM4T6V8C,CA/220C,CA

TRANSIL

FEATURES

- PEAK PULSE POWER= 400 W @ 1ms.
- BREAKDOWN VOLTAGE RANGE : From 6V8 to 220 V.
- UNI AND BIDIRECTIONAL TYPES.
- LOW CLAMPING FACTOR.
- FAST RESPONSE TIME: $T_{clamping}$: 1ps (0 V to V_{BR}).
- JEDEC REGISTRED.



SOD 6
(Plastic)

DESCRIPTION

Transil diodes provide high overvoltage protection by clamping action. Their instantaneous reponse to transients makes them praticularly suited to protect voltage sensitive devices such as MOS Technology and low voltage supplied IC's.

MECHANICAL CHARACTERISTICS

- Body marked with : Logo, Date Code, Type Code and Cathode Band (for unidirectional types only).
- Full compatibility with both gluing and paste soldering technologies.
- Excellent on board stability.
- Tinned copper leads.
- High temperature resistant resin.

ABSOLUTE RATINGS (limiting values)

Symbol	Parameter		Value	Unit
P_p	Peak pulse power dissipation See note 1 and derating curve Fig 1.	Tamb = 25°C	400	W
P	Power dissipation on infinite heatsink See note 1 and derating curve Fig 1.	Tlead = 50°C	5	W
I_{FSM}	Non repetitive surge peak forward current. For unidirectional types.	Tamb = 25°C t =10 ms	50	A
T_{stg} T_j	Storage and junction temperature range		- 65 to + 175 150	°C °C
T_L	Maximum lead temperature for soldering during 10 s.		260	°C