

TOSHIBA ZENER DIODE SILICON DIFFUSED JUNCTION

5Z27, 5Z30

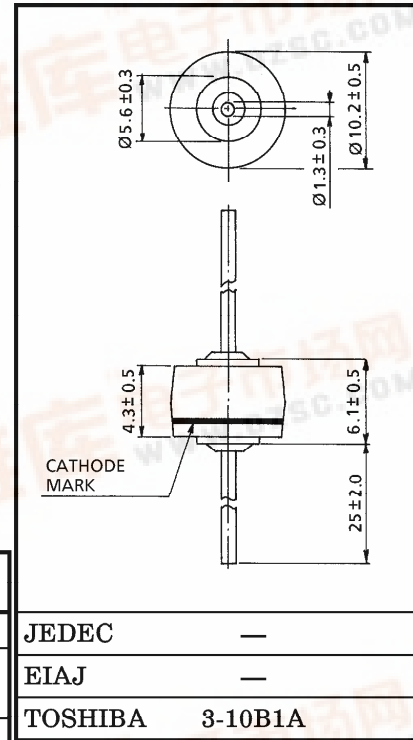
POWER SURGE SUPPRESSOR

--- designed for use as a reverse power transient suppressor to protect automotive electrical equipments from over-voltage conditions.

- Excellent Clamp Voltage Characteristics
- High Power Capability
- Rapidly Surge Absorption
- Excellent Surge Responsibility
- Various Lead Types
- Non-Standard Voltage Available

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Allowable Power Dissipation (Note 1)	P	5	W
Non-Repetitive Peak Reverse Surge Current (Ta = 25°C) (Fig.1)	I _{RSM}	62	A
Junction Temperature	T _j	-40~150	°C
Storage Temperature	T _{stg}	-40~150	°C



JEDEC	—
EIAJ	—
TOSHIBA	3-10B1A

Weight : 2.7g

(Note 1) Lead tip temperature
T_L = 25°C

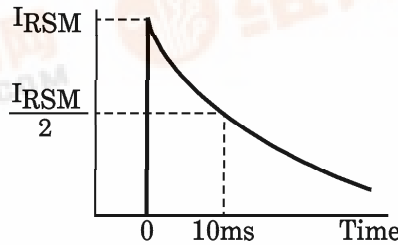


Fig.1

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

TYPE	ZENER VOLTAGE V _Z (V) (I _Z = 10mA)			ZENER IMPEDANCE r _d (Ω) (I _Z = 10mA)	TEMPERATURE COEFFICIENT α _T (mV / °C) (I _Z = 10mA)		FORWARD VOLTAGE V _F (V) (I _F = 6A)	REVERSE CURRENT I _R (μA) (V _R = 22V)
	MIN.	TYP.	MAX.	MAX.	TYP.	MAX.	MAX.	MAX.
5Z27	24	27	30	30	23	36	1.2	10
5Z30	27	30	33	30	25	40	1.2	10

