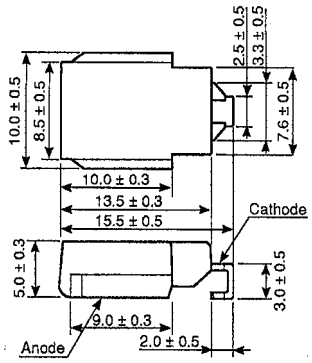
TOSHIBA ZENER DIODE SILICON DIFFUSED-JUNCTION TYPE

U5ZA27(Z),U5ZA27C

BEST SUITED FOR OVERVOLTAGE PROTECTION OF ELECTRONICSYSTEM :
ELECTRONIC SYSTEM FOR USE IN AUTOMOBILES
ELECTRONIC SYSTEM FOR COMMERCIAL USE
ELECTRONIC SYSTEM FOR INDUSTRIAL USE
FOR COMMUNICATIONS, CONTROLS, MEASURING INSTRUMENTS, ETC.

- High surge power withstanding capabilities that absorb load dump surge.
- Excellent surge responsibility for steep surge absorption.
- Surface mount type is available for easy applications. Axial lead type is also available.
- Corresponds to taping packages.

Unit: mm



JEDEC	—
JEITA	—
TOSHIBA	3−11J2A

Weight: 2.5 g

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATINGS	UNIT
Allowable power dissipation (Note 1)	P	5	W
Non-repetitive peak reverse surge current (See Fig.1 for the exponents.)	I_{RSM}	62	A
Junction temperature	T_j	−40~150	°C
Storage temperature	T_{stg}	−40~150	°C

Note 1: Lead tip temperature T_L = 25°C

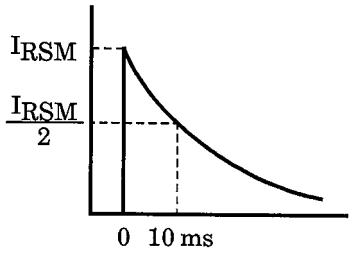


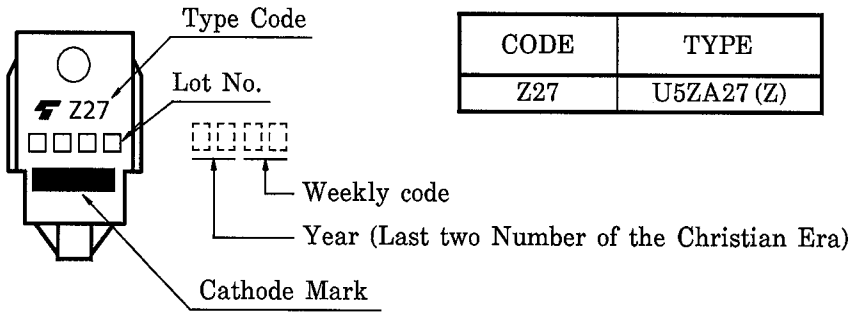
Fig.1

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

Type No.	Zener voltage V_Z [V] (I_Z = 10 mA)			Operating resistance r_d [Ω] (I_Z = 10 mA)	Temperature coefficient α_T [mV / °C] (I_Z = 10 mA)		Forward voltage V_F [V] (I_F = 6 A)	Reverse current I_R [μA] (V_R = 22 V)
	Min	Typ.	Max	Max	Typ.	Max	Max	Max
U5ZA27(Z) / C	24.0	27	30.0	30	23	36	1.2	10

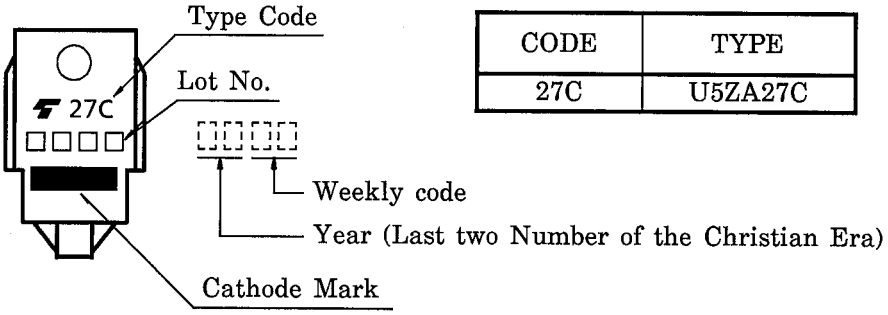
MARKING

U5ZA27 (Z)



CODE	TYPE
Z27	U5ZA27 (Z)

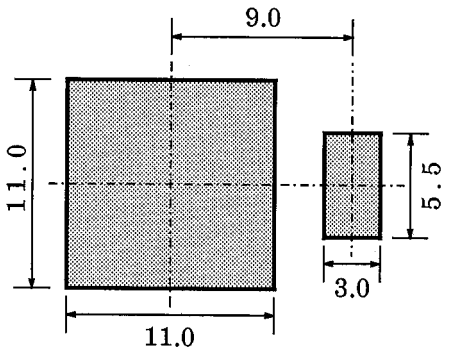
U5ZA27C



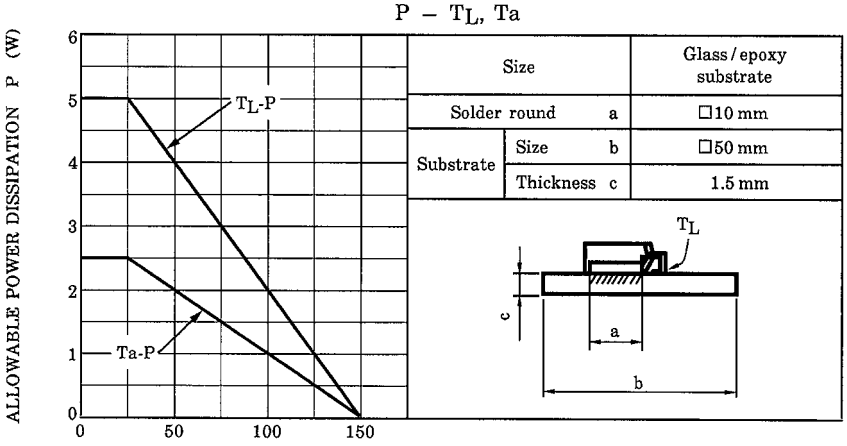
CODE	TYPE
27C	U5ZA27C

STANDARD SOLDERING PAD

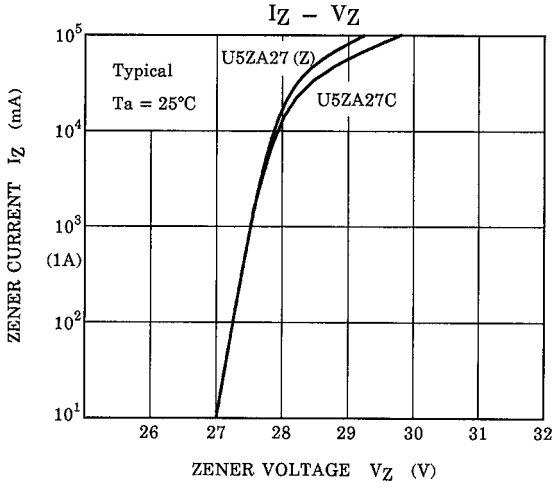
Unit: mm



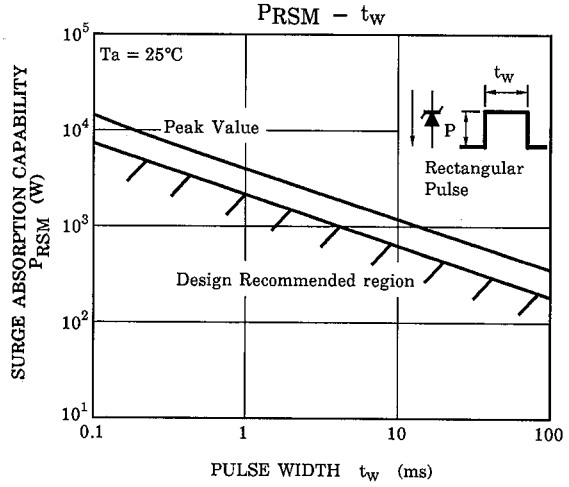
P – T_L, Ta



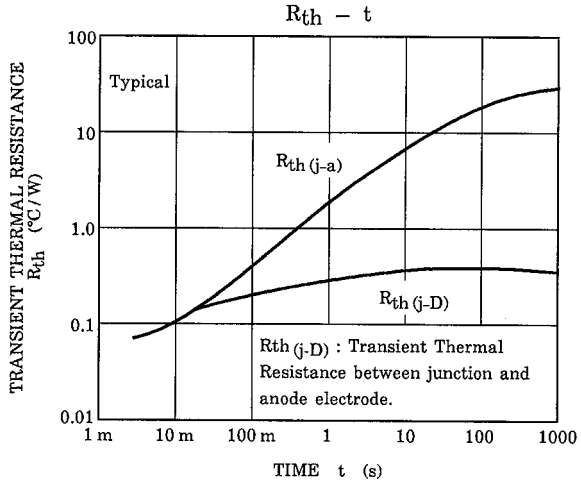
I_Z – V_Z



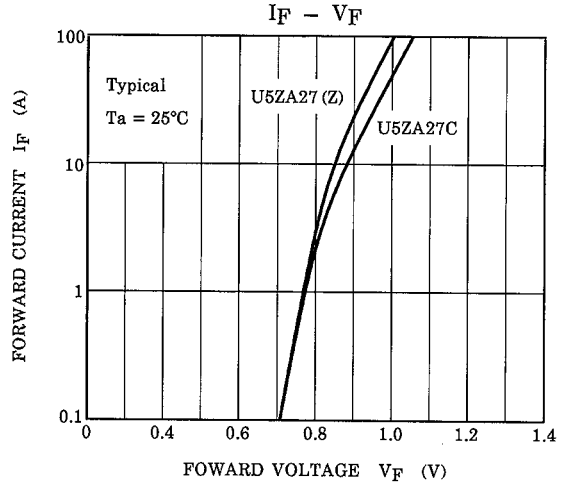
P_{RSM} – t_W



R_{th} – t



I_F – V_F



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