Unit: mm

TOSHIBA Zener Diode Silicon Diffused-Junction Type

U5ZA48C

Best Suited for Overvoltage Protection of Electronic Systems

Electronic Systems for Use in Automobiles

Electronic Systems for Commercial Use

Electronic Systems for Industrial Use

For Communications, Controls, Measuring Instruments, etc.

- High surge power withstanding capabilities that absorb load dump surge.
- Excellent surge response for steep surge absorption.
- Suitable for tape packaging

90 ± 03 13.5 ± 0.3 15.5 ± 0.5 1 ANODE 2 CATHODE

JEDEC —

JEITA — TOSHIBA 3-11J2A

Weight: 2.5 g (typ.)

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Allowable power dissipation (Note)	Р	5	W
Non-repetitive peak reverse surge current (See Figure 1 for the exponents.)	I _{RSM}	50	А
Peak one cycle surge forward current (single half sine-wave, t = 10 ms)	I _{FSM}	700	А
Junction temperature	Tj	-40~150	°C
Storage temperature	T _{stg}	−40~150	°C

Note: Lead tip temperature $T_L = 25^{\circ}C$

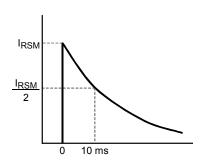
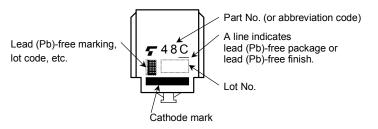


Figure 1

Electrical Characteristics (Ta = 25°C)

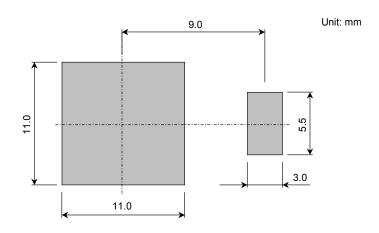
Туре No.	Zener Voltage V_Z [V] $(I_Z = 10 \text{ mA})$		Zener Voltage $V_Z[V]$ Resistant $V_Z[V]$ $V_Z[\Omega]$ $V_Z[\Omega]$ $V_Z[\Omega]$		Operating Resistance $r_d [\Omega]$ (I _Z = 10 mA)	Temperature Coefficient α_T [mV/°C] (I _Z = 10 mA)		Forward Voltage $V_F[V]$ $(I_F = 6 A)$	Reverse Current $I_{R} \left[\mu A \right] \\ (V_{R} = 38.4 \text{ V})$
	Min	Тур.	Max	Max	Тур.	Max	Max	Max	
U5ZA48C	43.2	48.0	52.8	65	39	62	1.2	10	

Marking



Abbreviation Code	Part No.		
48C	U5ZA48C		

Standard Soldering Pad



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030619EAA

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