Unit in mm

TOSHIBA Zener Diode Silicon Diffused-Junction Type

U 5 Z A 4 0 C

Best Suited for Overvoltage Protection of Electronic System:

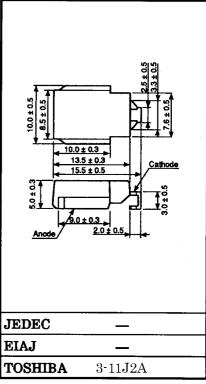
Electronic System for Use in Automobiles

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
- Excellent surge responsibility for steep surge absorption.
- Surface mount type is available for easy applications.
- Corresponds to taping packages.



Weight: 2.5 g

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Allowable power dissipation (Note1)	Р	5	W
Non-repetitive peak reverse surge current (see figure 1 for the exponents.)	I _{RSM}	62	Α
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

Note1: Lead tip temperature $T_L = 25$ °C

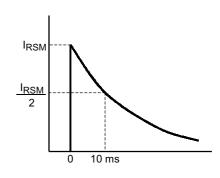


Figure 1

ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent products specifications. Also, please keep in mind the precautions and conditions set forth in the TOSHIBA Semiconductor Reliability Handbook. The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by TOSHIBA CORPORATION for any infringements of intellectual property or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any intellectual property or other rights of TOSHIBA CORPORATION or

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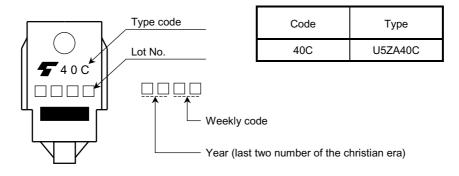
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Electrical Characteristics (Ta = 25°C)

Type No.	Zener Voltage V_Z [V] $(I_Z = 10 \text{ mA})$		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 [µA] (V _R = 32 V)	
	Min	Тур.	Max	Max	Тур.	Max	Max	Max
U5ZA40C	36.0	40.0	44.0	30	31	49	1.2	10

Marking



Standard Soldering Pad

