XBZ12A120CR-G

Zener Diode

■FEATURES

Ultra Small Package Environmentally Friendly

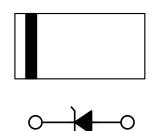
: EU RoHS Compliant, Pb Free

■PRODUCT NAME

PRODUCT NAME	PACKAGE	ORDER UNIT
XBZ12A120CR-G *	USP-2B02	10,000pcs/Reel
* = * 0 * 5		

* The "-G" suffix denotes Halogen and Antimony free as well as being fully RoHS compliant

PIN CONFIGURATION



PARAMETER

Power Dissipation

ABSOLUTE MAXIMUM RATINGS

SYMBOL

Pd

Junction TemperatureTj150Storage TemperatureTstg-55 to +150IEC61000-4-2 (ESD) AirV_{ESD_A}±15IEC61000-4-2 (ESD)
ContactV_{ESD_C}±8

(*1) PCB mounted

ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I _F =10mA	-	-	1.0	V
Zener Voltage	Vz	Izt=5mA	11.4	12	12.6	V
Zener Impedance	Z _{ZT1}	Izт=5mA	-	-	25	Ω
	Z _{ZT2}	I _{ZT} =1mA	-	-	150	Ω
Reverse Current	I _R	V _R =9.1V	-	_	0.1	μA

Ta=25°C

UNITS

mW

°C

°C

kV

kV

RATINGS

137.5 (*1)

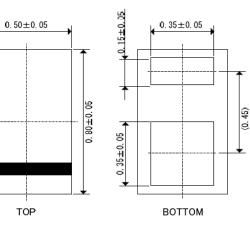
■ APPLICATIONS

ESD Protection

Voltage Regulation

PACKAGING INFORMATION







Unit: mm

ETR39008-001a

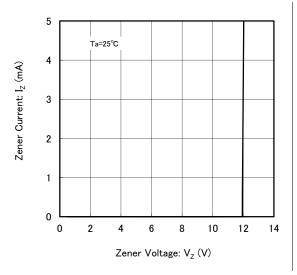
Ta=25°C

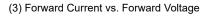


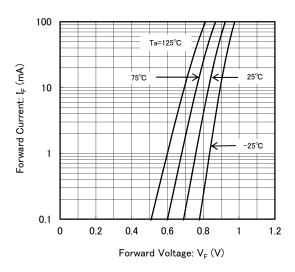
XBZ12A120CR-G

■ TYPICAL PERFORMANCE CHARACTERISTICS

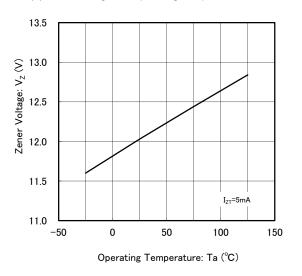
(1) Zener Current vs. Zener Voltage



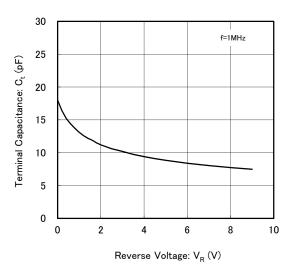




(2) Zener Voltage vs. Operating Temperature



(4) Terminal Capacitance vs. Reverse Voltage



■NOTES ON USE

1. Please use this IC within the absolute maximum ratings.

Even within the ratings, in case of high load use continuously such as high temperature, high voltage, high current and thermal stress may

cause reliability degradation of the IC.

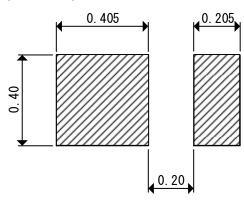
2. Torex places an importance on improving our products and their reliability.

We request that users incorporate fail-safe designs and post-aging protection treatment when using Torex products in their systems.

■REFERENCE PATTERN LAYOUT

USP-2B02 Recommended Pattern Layout

(Reference)

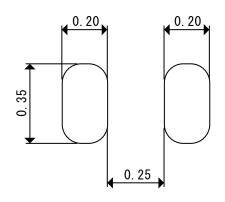


■MARKING RULE

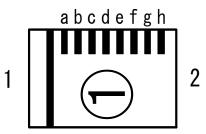
① represents products

MARK	PRODUCT
4	XBZ12A120CR-G

●USP-2B02 Recommended Metal Mask Design (Reference)



USP-2B02



Lot Number a,b,c,d,f,e,g,h Manufacturing date

XBZ12A120CR-G

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