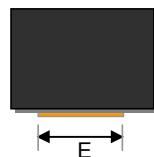
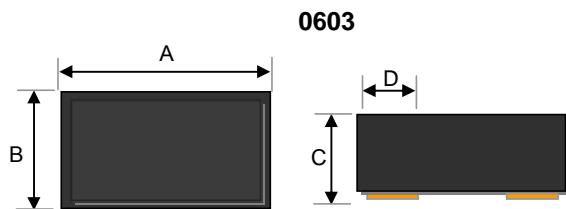


Small Signal Diode



Features

- ◊ Designed for mounting on small surface.
- ◊ (16KV) IEC61000-4-2 rating.
- ◊ Moisture sensitivity level 1
- ◊ Working Voltage : 5V, 12V, 24V
- ◊ Pb free version and RoHS compliant
- ◊ Green compound (Halogen free) with suffix "G" on packing code and prefix "G" on date code

Mechanical Data

- ◊ Case : 0603 standard package, molded plastic
- ◊ Terminal: Gold plated,solder per MIL-STD-750, Method 2026 guaranteed
- ◊ High temperature soldering guaranteed: 250°C/10s
- ◊ Mounting position: Any
- ◊ Weight : 0.003 gram (approximately)

Dimensions	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	1.60	1.80	0.063	0.071
B	0.80	1.00	0.031	0.039
C	0.70	0.85	0.027	0.033
D	Typ.	0.45	Typ.	0.018
E	Typ.	0.70	Typ.	0.028

Ordering Information

Part No.	Package	Packing
TESDUxx RZ	0603	4Kpcs / 7" Reel

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Maximum Ratings

Type Number	Symbol	Value	Units
Maximum Power Dissipation	P _D	150	mW
Thermal Resistance (Junction to Ambient) (Note 1)	R _{θJA}	666	°C/W
Junction and Storage Temperature Range	T _J , T _{STG}	-55 to + 150	°C

Electrical Characteristics

Type Number	Symbol	Min	Max	Units
Reverse Breakdown Voltage TESDU5V0 TESDU12V TESDU24V	V _(BR)	5.1	7	V
		13	17	
		25	28	
Reverse Leakage Current TESDU5V0 TESDU12V TESDU24V	I _R	0.1	2	uA
Clamping Voltage TESDU5V0 TESDU12V TESDU24V	V _c	-	15 25 47	V
Peak Pulse Power TESDU5V0 TESDU12V TESDU24V	P _{PP}	-	75 25 7	W
Junction Capacitance TESDU5V0 TESDU12V TESDU24V	C _J	15 12 10	-	pF

Notes:1. Valid provided that electrodes are kept at ambient temperature

Small Signal Diode

Rating and Shacteristic Curves

**FIG 1 8/20us Peak pulse current wave
from acc.IEC 61000-4-5**

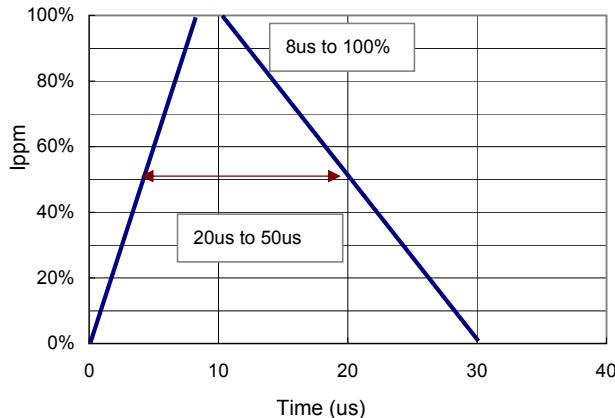
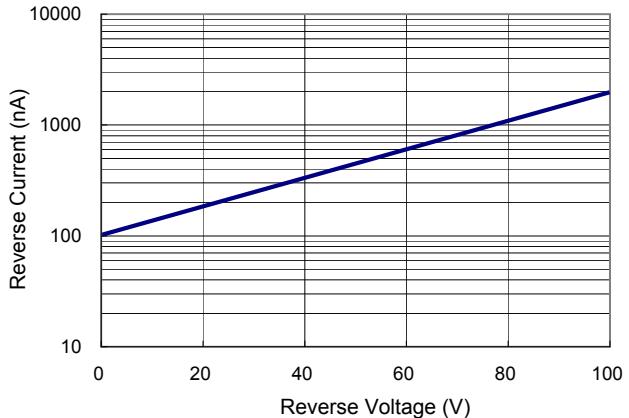


FIG 2 Reverse Characteristics



**FIG 3 Capacitance between terminals
characteristics**

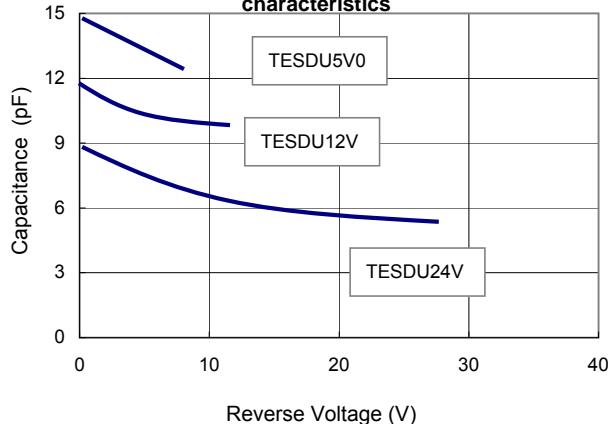


FIG 4 Power rating derating curve

