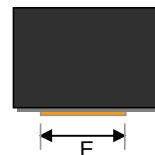
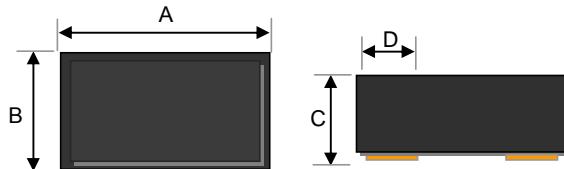


Small Signal Diode



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 : 0503 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 : 0.002 gram (approximately)

Dimensions	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	1.15	1.35	0.045	0.053
B	0.65	0.85	0.026	0.033
C	0.60	0.75	0.024	0.030
D	Typ.	0.40	Typ.	0.016
E	Typ.	0.55	Typ.	0.022

Ordering Information

Part No.	Package	Packing
TESDExxx RZ	0503	5Kpcs / 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_{0JA}	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	$V_{(BR)}$	5.1	7	V
TESDE5V0		13	17	
TESDE12V		25	28	
Reverse Leakage Current	I_R	0.1	2	uA
TESDE24V				
TESDE5V0				
Clamping Voltage	V_c	-	15	V
TESDE12V				
TESDE24V				
Peak Pulse Power	P_{PP}	-	75	W
TESDE5V0				
TESDE12V				
Junction Capacitance	C_J	15	20	pF
TESDE24V				
TESDE5V0				
TESDE12V	$V_R=0.5V, f=1.0MHz$	12	-	
TESDE24V				

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**

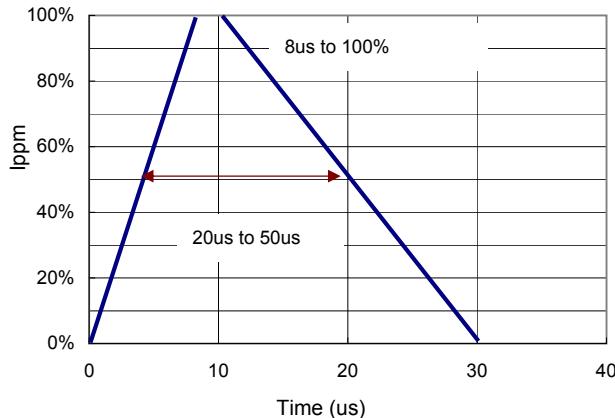
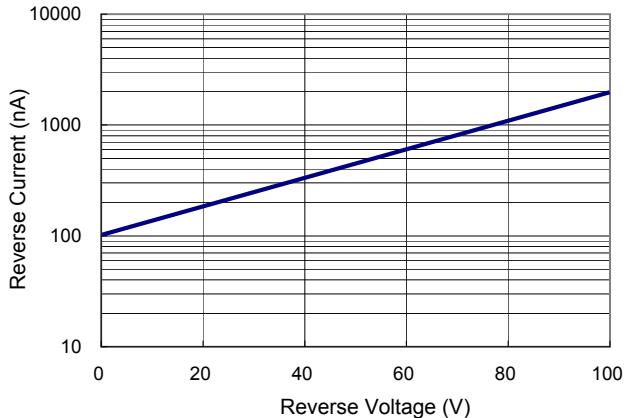


FIG 2 Reverse Characteristics



**FIG 3 Capacitance between terminals
characteristics**

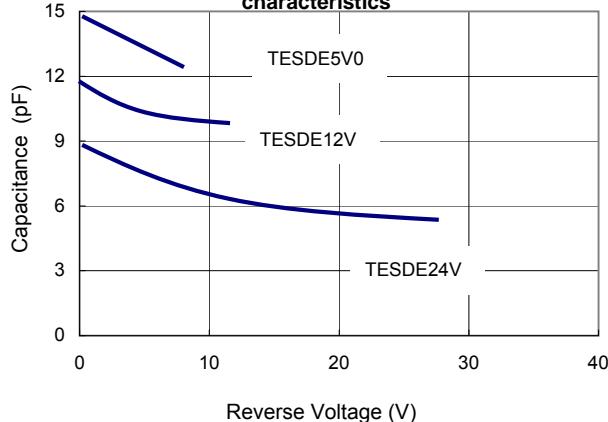


FIG 4 Power rating derating curve

