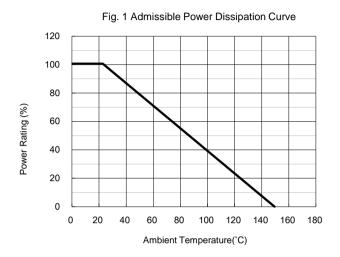
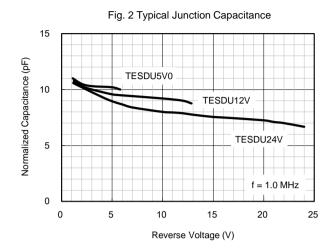


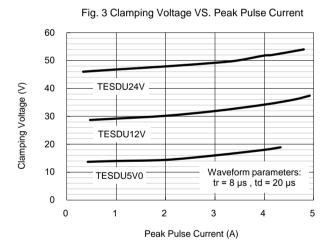
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RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)







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ORDERING INFORMATION					
PART NO.	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING	
TESDUxxx (Note1, 2)	RG	G	0603	4,000 / 7" Reel	

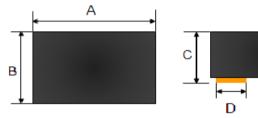
Note 1: "xxx" defines voltage from 5V (TESDU5V0) to 24V (TESDU24V)

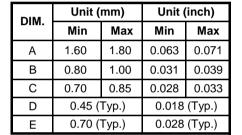
Note 2: Whole series with green compound

EXAMPLE						
EXAMPLE P/N	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION		
TESDU5V0 RGG	TESDU5V0	RG	G	Green compound		

PACKAGE OUTLINE DIMENSIONS

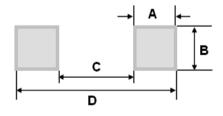
0603







SUGGEST PAD LAYOUT



DIM.	Unit (mm)	Unit (inch)	
DIIVI.	Тур.	Тур.	
Α	0.60	0.024	
В	1.00	0.039	
C 0.65		0.026	
D	1.85	0.073	

Note: The suggested land pattern dimensions have been provided for reference only, as actual pad layouts may vary depending on application.

MARKING

Part NO.	Marking
TESDU5V0	E05
TESDU12V	E12
TESDU24V	E24

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APPLICATIONS INFORMATION

- ♦ Designed to protect one data, I/O, or power supply line
- ♦ Designed to protect sensitive electronics from damage or latch-up due to ESD
- ♦ Designed to replace multilayer varistors (MLVs) in portable applications
- ♦ Features large cross-sectional area junctions for conducting high transient currents
- Offers superior electrical characteristics such as lower clamping voltage and no device degradation when compared to MLVs
- The combination of small size and high ESD surge capability makes them ideal for use in portable applications

CIRCUIT BOARD LAYOUT RECOMMENDATIONS

Good circuit board layout is critical for the suppression of ESD induced transients

- Place the ESD Protection Diode near the input terminals or connectors to restrict transient coupling
- ♦ Minimize the path length between the ESD Protection Diode and the protected line
- Minimize all conductive loops including power and ground loops
- ♦ The ESD transient return path to ground should be kept as short as possible
- ♦ Never run critical signals near board edges
- ♦ Use ground planes whenever possible

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