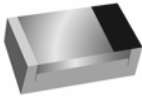


Preliminary



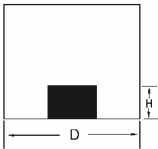
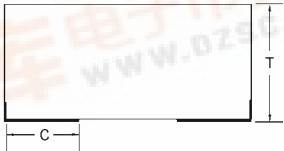
TESDU5V0U
SMD ESD Protection Diode

0603



Features

- ✧ ICE61000-4-2 8KV(contact), 15KV(air).
- ✧ Surface mount package.
- ✧ High component density



Mechanical Data

- ✧ Cases: 0603 standard package, molded plastic
- ✧ Terminals: Gold plated, solderable per MIL-STD-750, method 2026,
- ✧ Mounting position: Any
- ✧ Weight: 0.003 gram (approximately)

Item	0603
L	0.071(1.80) 0.063(1.60)
W	0.039(1.00) 0.031(0.80)
T	0.033(0.85) 0.027(0.70)
C	0.014(0.35) Typical
D	0.028(0.70) Typical
H	0.012(0.30) Typ.

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Type Number	Symbol	Min.	Typ	Max.	Units
Diode Breakdown Voltage IF=1mA	V _{BD}	5.1	7.0		V
Leakage Current VR=5V	I _L		0.1	2.0	uA
Capacitance @ VR=0V f=1MHz	C _J		24	30	pF
Clamping Voltage IPP=5A, TP=8/20us	V _C		9	12	V
ESD Capability C=150pF, R=300ohm, forward and reverse 10 pulses	V _{ESD} *	8			KV
Package Power	P _d			150	mW
Storage and Junction Temperature	TSTG, T _J	-55		150	°C

* One diode conducting

