



SE03Q8UDDA

ESD PROTECTION DIODE

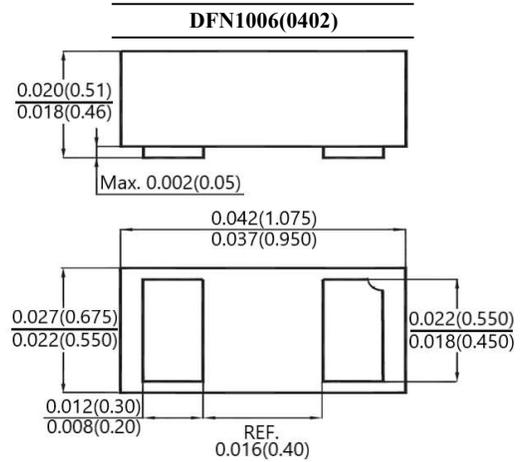
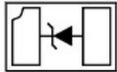
FEATURES

- IEC61000-4-2(ESD) 30kV(air), 30kV(Contact)
- Uni-Directional
- Low Operating Voltage
- Suffix " H " indicated Halogen-free part, ex.SE03Q8UDDAH

MECHANICAL DATA

Case : DFN1006(0402) mold package

PIN CONFIGURATION



Dimensions in inch and (millimeter)

Maximum Ratings (Rating at 25°C ambient temperature unless otherwise specified)

Parameter	Symbol	Value	Units
Peak Pulse Power (tp = 8/20μs)	P _{PP}	102	W
Peak Pulse Current (tp = 8/20μs)	I _{PP}	9.8	A
ESD per IEC 61000-4-2 (Air)	V _{ESD}	±30	kV
ESD per IEC 61000-4-2 (Contact)		±30	
Operating Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C



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Electrical Characteristics Per line @ 25°C Unless Otherwise Specified

Parameter	Test Condition	Symbol	Min	Typ	Max	Units
Reverse Stand-Off Voltage	-	V_{RWM}	-	-	3.3	V
Breakdown Voltage	$I_T=1mA$	V_{BR}	5.0	-	-	V
Reverse Leakage Current	$V_{RMW}=3.3V$	I_R	-	-	2.5	μA
Clamping Voltage	$I_{PP}=9.8A, t_p=8/20\mu s$	V_C	-	-	10.4	V
Junction Capacitance	$V_R=0V, f=1MHz$	C_J	-	80	-	pF

RATINGS AND CHARACTERISTIC CURVES

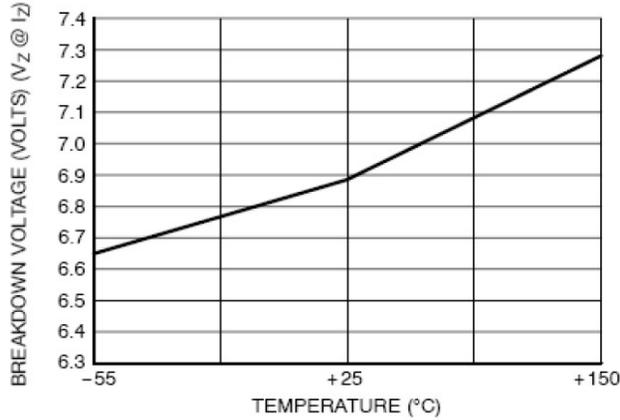


Figure 1. Typical Breakdown Voltage versus Temperature

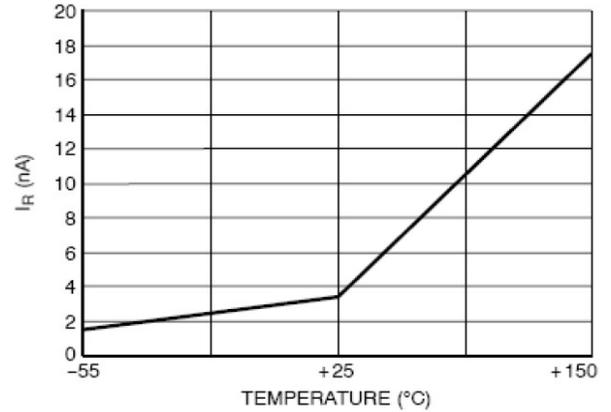


Figure 2. Typical Leakage Current versus Temperature