

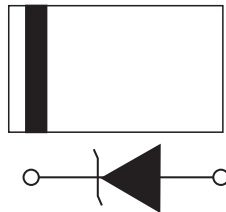
PART NUMBER	PACKAGE	VOLTAGE	CONFIGURATION
ESD4205M1Q-EVL E = 7" Embossed T&R (10,000)	DFN1006-2L	5V	SINGLE

FEATURES:

- IEC61000-4-2(ESD) : ±30kV Air, ±30kV Contact
- IEC61000-4-4(EFT) : 40A(5/50ns)
- IEC61000-4-5(Lightning) : 25A(8/20µs)
- Low leakage current, maximum of 1µA at rated voltage
- Low clamping voltage

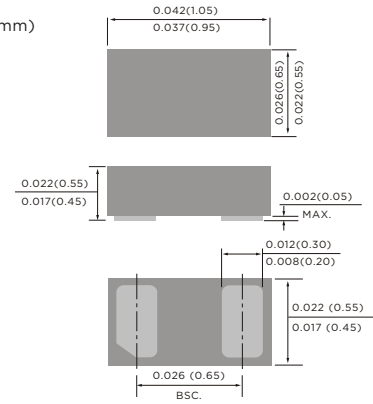
MECHANICAL DATA:

- Case: Molded plastic, DFN1006-2L
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00002 ounces, 0.0006 grams



DFN1006-2L

Units: inch (mm)



ENVIRONMENTAL INFORMATION

RoHS Status	10 of 10 Compliant
REACH Status	Compliant
Halogen Status	Halogen Free
Conflict Mineral Status	Conflict Mineral Free
Moisture Sensitivity Level (MSL)	1



MAXIMUM RATINGS & THERMAL CHARACTERISTICS

T_A = 25°C unless otherwise noted.

PARAMETER	SYMBOL	VALUE	UNITS
ESD IEC61000-4-2(Air) ESD IEC61000-4-2(Contact)	V _{ESD}	±30 ±30	kV
Operating Junction Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

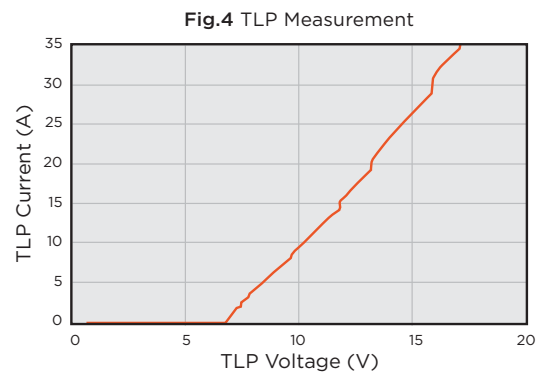
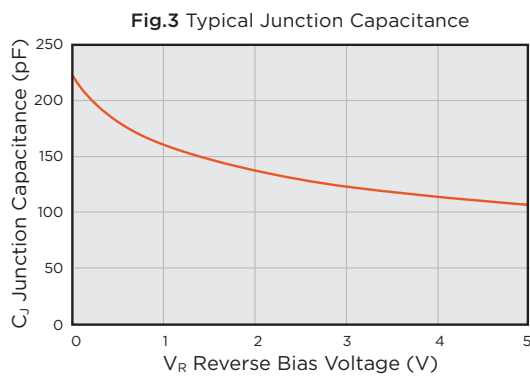
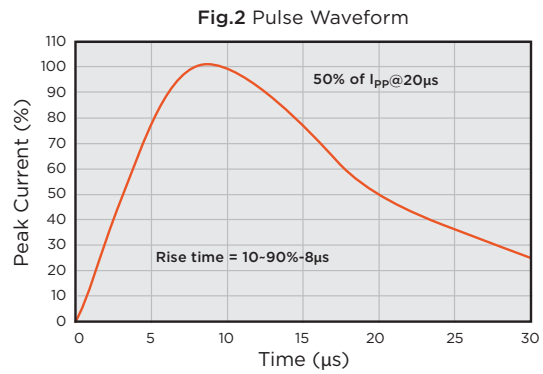
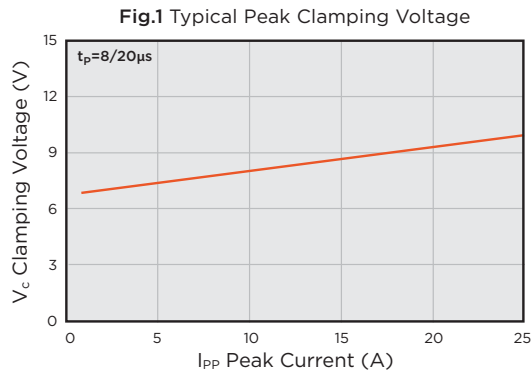
T_A = 25°C unless otherwise noted.

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Reverse Stand-Off Voltage	V _{RWM} ⁽¹⁾	-	-	-	5	V
Reverse Breakdown Voltage	V _{BR}	I _{BR} = 1mA	6	-	7.5	V
Reverse Leakage Current	I _R	V _R = 5V	-	-	1	µA
Clamping Voltage	V _{CL}	I _{PP} = 1A, t _p = 8/20µs	-	-	8	V
		I _{PP} = 25A, t _p = 8/20µs	-	-	13.5	
Clamping Voltage TLP	V _{CL} ⁽²⁾	I _{PP} = 8A, t _p = 100ns	-	9.6	-	V
		I _{PP} = 16A, t _p = 100ns	-	12.2	-	
Dynamic Resistance	R _{DYN}	t _p = 100ns	-	0.33	-	Ω
Off State Junction Capacitance	C _J	0Vdc Bias f = 1MHz	-	-	250	pF

NOTES:

1. A transient suppressor is selected according to the working peak reverse voltage (V_{RWM}), which should be equal to or greater than the DC or continuous peak operation voltage level.
2. Testing using Transmission Line Pulse (TLP) conditions: Z₀ = 50Ω, t_p = 100ns.

ELECTRICAL CHARACTERISTIC CURVES



MOUNTING PAD LAYOUT

Units: inch (mm)

