DIOTEC ELECTRONICS CORP 18020 Hobart Blvd., Unit B Gardena, CA 90248 U.S.A

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POWER OVER ETHERNET (PoE)

EQUIPMENT PROTECTION

1.5 KP BIPOLAR TRANSIENT VOLTAGE SUPPRESSOR DIODE CELLS

FEATURES

- Lowest Electrical & Thermal Resistance Ideally Suited For Preventing Overvoltage/Overcurrent Damage to Power over Ethernet (PoE) Equipment
- VOID FREE VACUUM DIE SOLDERING For Lowest Electrical/Thermal Resistance And Maximum Mechanical Strength & Heat Dissipation (Solder Voids: Typical ≤ 2%, Max. ≤ 10% of Die Area)
- Round Die For High Power Heavy Duty Performance
- High Heat Handling Capability With Very Low Thermal Stress
- Proprietary Junction Passivation For Superior Reliability And Performance

RoHS COMPLIANT

MECHANICAL DATA

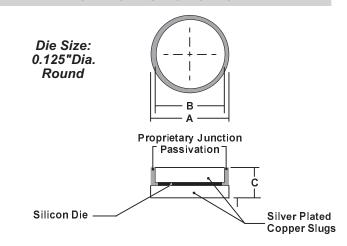
Finish: All external surfaces are silver plated for corrosion resistance superior solderability

Soldering Temperature: 282 °C maximum

Mounting Position: Any

Polarity: Bipolar

MECHANICAL SPECIFICATION



DIM	INCHES		
	NOM	+/-	
Α	0.142	0.0021	
В	0.125	0.0025	
С	0.052	0.003	

MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

PARAMETER		RATINGS	UNITS
Series Number		BP1.5-23	
Breakdown Voltage (Cells Begin to Conduct) (Note 1)	V(BR)	23.3+/- 5%	VOLTS
Test Current (To Determine VBR)	lτ	1	mA
Clamping Voltage During a 10/1000μS Transient	VC(10)	33 Max	VOLTS
Maximum Current Conducted During a 10/1000μSTransient	IPPM (10)	45 Min	AMPS
Reverse Stand Off Voltage (Voltage at Which IR Measured)	Vwm	20.5	VOLTS
Maximum Current Conducted at Vwm	lR	1 Max	μ Α
Maximum Current Conducted During 8/20 μS Transient	IPPM(8)	400 M in	AMPS
Clamping Voltage During 8/20 μS Transient		43 Max	VOLTS

Notes: (1) Diode cell breakdown voltage can be tailored to meet your specific application requirements. Please Contact Us for details.