

TD3168

Capabilities Data Sheet

Solar Array Bypass Diode

Features

- Very Thin Construction
- Low leakage reverse current
- Low forward voltage drop
- Flexible leads for surface mount soldering or welding
- Passivated metallization will not degrade in humidity
- Space Level Quality

70 Volts
1.0 Amp

Applications

- Bypass diode designed for Solar Cell protection
- Extreme Temperature Cycling environments
- Exposed Solar Array surface mount

Electrical Characteristics @ 25°C

Junction Temperature Range -65 to +150 °C

SYMBOL	CHARACTERISTIC	CONDITIONS	MAX	UNITS
IR	Reverse (Leakage) Current	VR = 25 Vdc	10	uAmps
VF1	Forward Voltage	IF = 1.0 A pulse test pw=300ms, d/c<2%	825	mVolts
VF2	Forward Voltage	IF = 2.0 A pulse test pw=300ms, d/c<2%	850	mVolts
BVR	Breakdown Voltage	IR = 100 uA	(min) 80	Volts

Mechanical Outline

Suggested QCI Testing

- Bond Pull
- Temperature Cycling
- High Temperature Reverse Bias
- Humidity

