



2CK48, 2CK48A, 2CK48B SILICON EPITAXIAL PLANAR SWITCHING DIODE

**TECHNICAL
SPECIFICATION**

REVERSE VOLTAGE: 35-60-90V
FORWARD CURRENT: 150mA

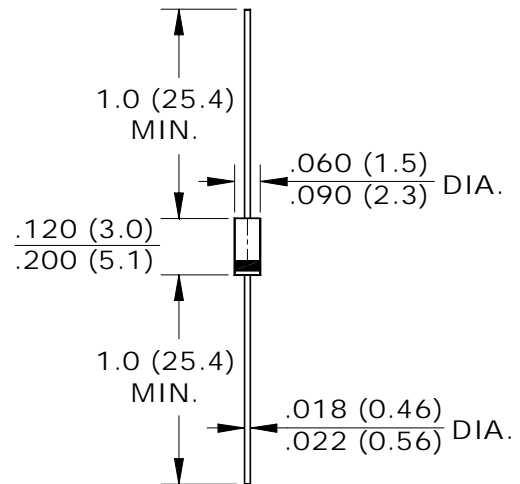
FEATURES

- Small glass structure ensures high reliability
- Fast switching
- Low leakage
- High temperature soldering guaranteed:
250°C/10S/9.5mm lead length
at 5 lbs tension

MECHANICAL DATA

- Terminal: Plated axial leads solderable per
MIL-STD 202E, method 208C
- Case: Glass, hermetically sealed
- Polarity: Color band denotes cathode
- Mounting position: Any

DO - 35



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

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

RATINGS	SYMBOL	2CK48	2CK48A	2CK48B	UNITS
Reverse Voltage	V_R	35	60	90	V
Peak Reverse Voltage	V_{RM}	40	70	100	V
Forward Current (average)	I_O	150			mA
Repetitive Forward Peak Current	I_{FRM}	450			mA
Forward Voltage ($I_F=10mA$)	V_F	1			V
Reverse Current ($V=V_R$)	I_{R1}	1			μA
Reverse Current ($V=V_R, T_J=100^\circ C$)	I_{R2}	20			μA
Capacitance (Note 1)	C_t	3			pF
Reverse Recovery Time (Note 2)	trr	5	4		nS
Thermal Resistance (junction to ambient) (Note 3)	$R_{\theta(ja)}$	0.35			$^\circ C/mW$
Operating Junction and Storage Temperature Range	T_{STG}, T_J	-55 ~ +175			$^\circ C$

Note

1. $V_R=1V, f=1 MHz$
2. $I_F=10mA$ to $I_R=10mA, I_{rr}=1mA$
- 3: Valid provided that leads are kept at ambient temperature at a distance of 8mm from case.