



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

**TECHNICAL  
SPECIFICATION**

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

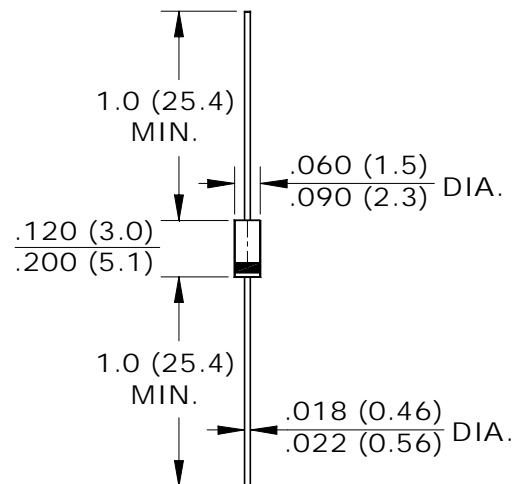
### FEATURES

- 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			$\mu A$
Reverse Current ( $V=V_R, T_J=100^\circ C$ )	$I_{R2}$	20			$\mu A$
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.