SOLID STATE DEVICES, INC.
14830 Valley View Blvd * La Mirada, Ca 90638
Phone: (562) 404-7855 * Fax: (562) 404-1773
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SED10HB45
SED10HE45

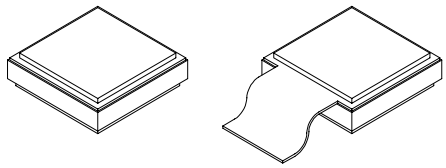
Designer's Data Sheet

10 AMP
45 VOLTS
SCHOTTKY
RECTIFIER

FEATURES:

- **Low Reverse Leakage**
- **Low Forward Voltage Drop**
- **Hermetically Sealed Power Surface Mount Package**
- **Guard Ring for Overvoltage Protection**
- **Eutectic Die Attach**
- **175°C Operating Temperature**
- **TX, TXV and Space Level Screening Available**

SEDPACK 1



Maximum Ratings	SYMBOL	VALUE	UNITS
Peak Repetitive Reverse and DC Blocking Voltage	V_{RRM} V_{RWM} V_R	**45**	**Volts**
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, T_C= 100°C)	**Io**	**10**	**Amps**
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on Io, allow junction to reach equilibrium between pulses, T_A = 25°C)	I_{FSM}	**175**	**Amps**
Operating and Storage Temperature	**Top & Tstg**	**-55 TO +175**	**°C**
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	**1.25**	**°C/W**

NOTE: All specifications are subject to change without notification.
SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET #: RS0002C

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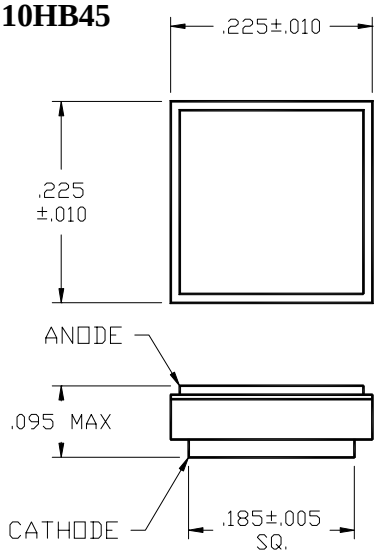
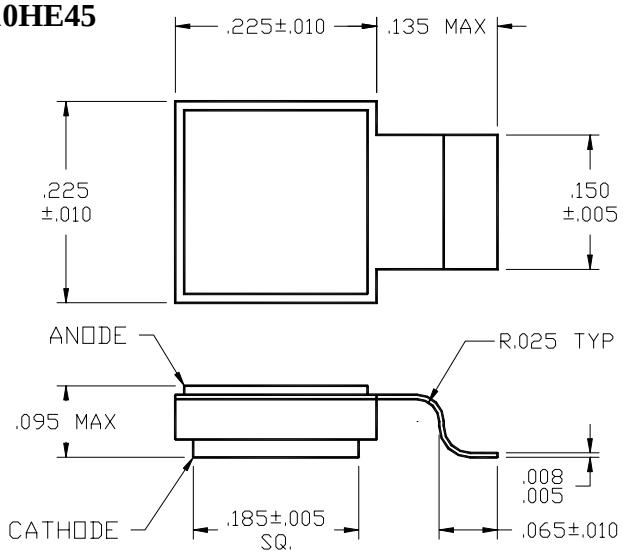
Electrical Characteristics	SYMBOL	MAXIMUM	UNITS
Instantaneous Forward Voltage Drop (I_F = 10A_{DC}, T_A = 25°C, 300 - 500 µs Pulse)	V_{F1}	0.55	V_{DC}
Instantaneous Forward Voltage Drop (I_F = 10A_{DC}, T_A = +125°C, 300 - 500 µs Pulse)	V_{F2}	0.49	V_{DC}
Reverse Leakage Current T_A = 25°C (Rated V_R , 300 µsec pulse minimum) T_A = 125°C	I_{R1} I_{R2}	2.0 15	mA
Junction Capacitance (V_R = 5V_{DC}, T_A = 25°C, f = 1MHz)	C_J	900	pF

CASE OUTLINE:
P/N SED10HB45



CASE OUTLINE:
P/N SED10HE45



TYPICAL OPERATING CURVES
(T_A = 25°C unless otherwise specified)