



SOLID STATE DEVICES, INC.

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Designer's Data Sheet

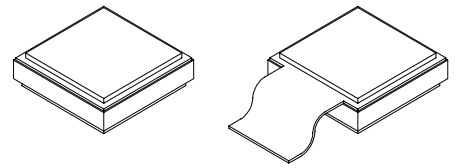
SED10HB45
SED10HE45

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, $T_C = 100^\circ\text{C}$)	I_o	10	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on I_o , allow junction to reach equilibrium between pulses, $T_A = 25^\circ\text{C}$)	I_{FSM}	175	Amps
Operating and Storage Temperature	Top & Tstg	-55 TO +175	$^\circ\text{C}$
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	1.25	$^\circ\text{C/W}$

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

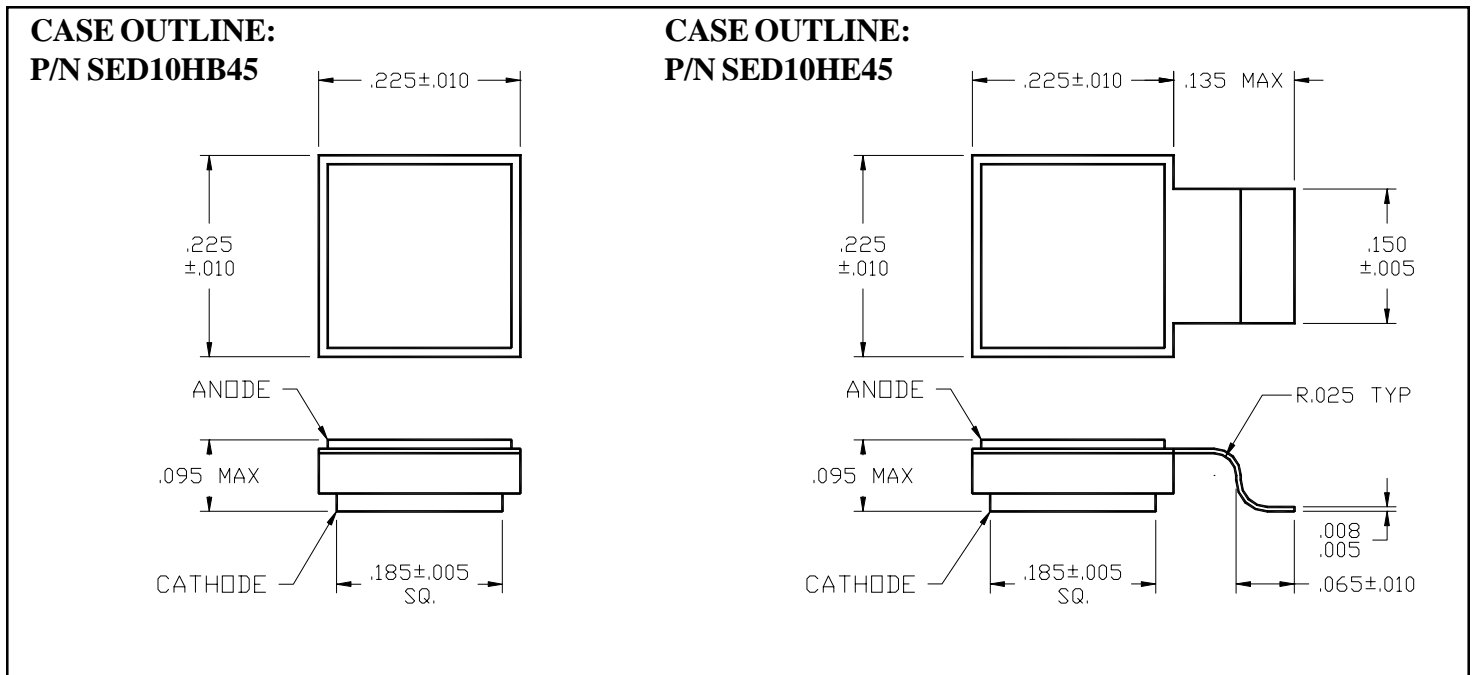
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Electrical Characteristics	SYMBOL	MAXIMUM	UNITS
Instantaneous Forward Voltage Drop ($I_F = 10A_{DC}$, $T_A = 25^\circ C$, 300 - 500 μs Pulse)	V_{F1}	0.55	V_{DC}
Instantaneous Forward Voltage Drop ($I_F = 10A_{DC}$, $T_A = +125^\circ C$, 300 - 500 μs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



TYPICAL OPERATING CURVES

($T_A = 25^\circ C$ unless otherwise specified)

