

TECHNICAL DATA
DATA SHEET 4046, REV. C**HERMETIC ULTRAFAST RECTIFIER**
SINGLE / DUAL - COM. CATHODE / COM. ANODE / DOUBLER

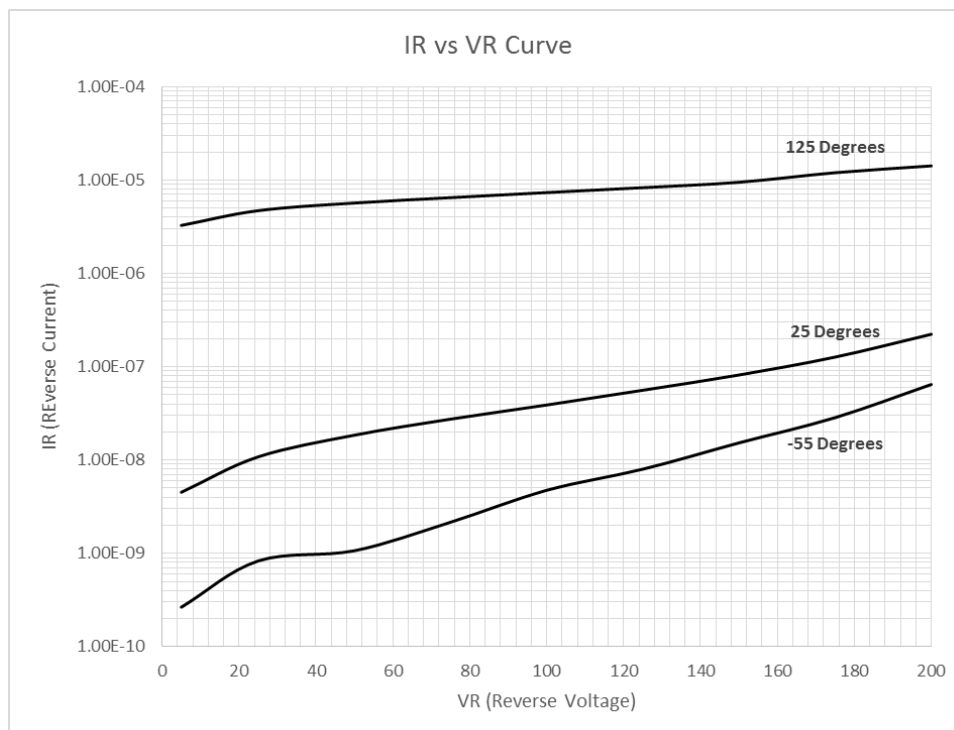
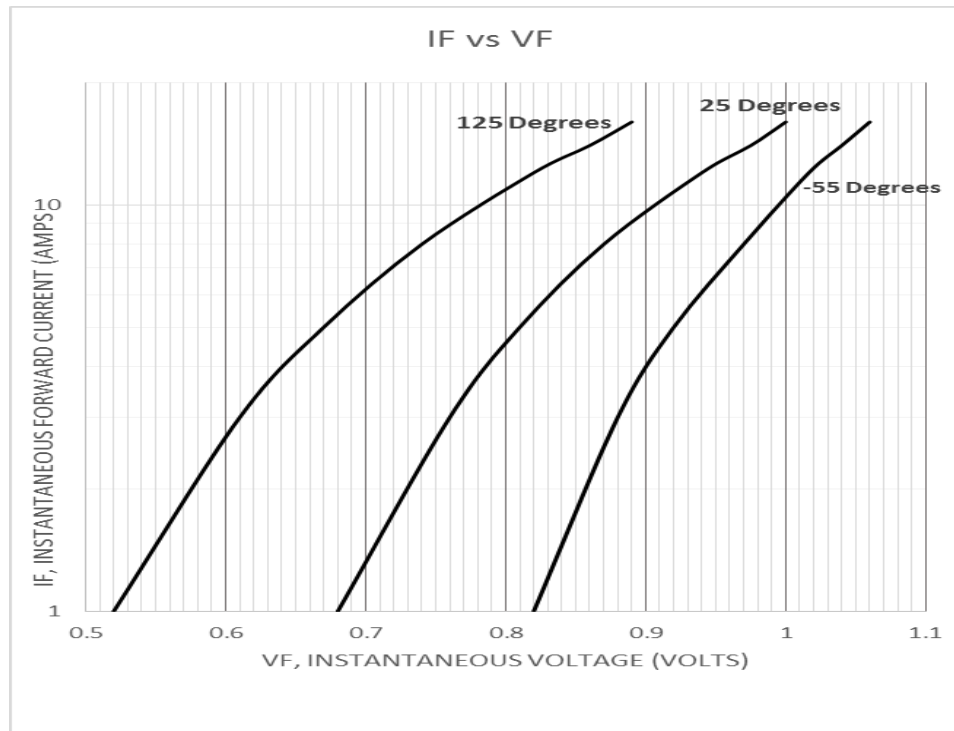
DESCRIPTION: 200 VOLT, 16 AMP, 35 NS HERMETIC RECTIFIER IN A TO-257 PACKAGE.
Ceramic Seals available (Add a "C" to the part number, i.e. SHDC326271)

MAX RATINGS/ELECTRICAL CHARACTERISTICS ALL RATINGS ARE AT $T_A = 25^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED

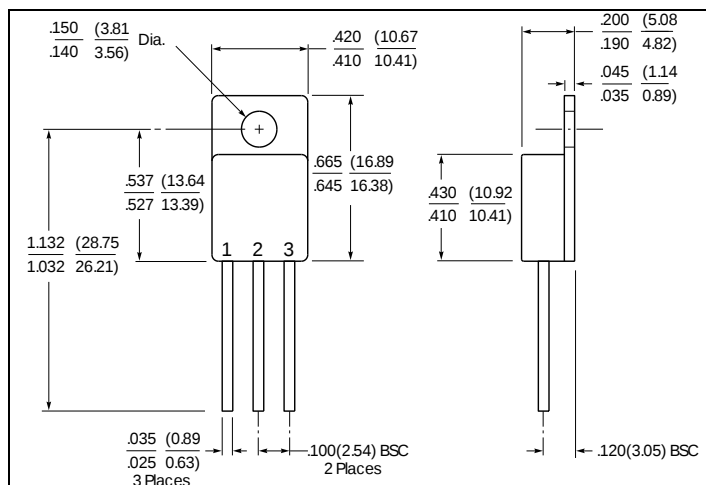
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE (PER LEG)	PIV	200	Volts
MAXIMUM FORWARD VOLTAGE DROP @ $T_A = 25^\circ\text{C}$ (PER LEG) $I_F = 10\text{A}$ SINGLE / COMMON CATHODE (P) $I_F = 16\text{A}$ SINGLE / COMMON CATHODE (P) $I_F = 10\text{A}$ COMMON ANODE (N) / DOUBLER (D) $I_F = 16\text{A}$ COMMON ANODE (N) / DOUBLER (D)	V_f	1.00 1.10 1.10 1.20	Volts
MAXIMUM FORWARD VOLTAGE DROP @ $T_A = 125^\circ\text{C}$ (PER LEG) $I_F = 16\text{A}$ SINGLE / COMMON CATHODE (P) $I_F = 16\text{A}$ COMMON ANODE (N) / DOUBLER (D)	V_f	1.00 1.10	Volts
MAXIMUM FORWARD VOLTAGE DROP @ $T_A = -55^\circ\text{C}$ (PER LEG) $I_F = 16\text{A}$ SINGLE / COMMON CATHODE (P) $I_F = 16\text{A}$ COMMON ANODE (N) / DOUBLER (D)	V_f	1.30 1.40	Volts
MAXIMUM DC OUTPUT CURRENT ($T_C = 100^\circ\text{C}$)	I_O	16	Amps
PEAK SINGLE CYCLE SURGE CURRENT (PER LEG) $t_p = 8.3 \text{ msec}$	I_{FSM}	180	Amps
MAXIMUM REVERSE RECOVERY TIME ($I_f = 0.5\text{A}$, $I_r = 1.0\text{A}$, $I_{rr} = 0.25\text{A}$)	t_{rr}	35	nsec
MAXIMUM REVERSE CURRENT I_{rr} @ PIV (PER LEG) @ $T_A = 25^\circ\text{C}$	I_{rr}	25	μA
MAXIMUM REVERSE CURRENT I_{rr} @ PIV (PER LEG) @ $T_A = 125^\circ\text{C}$	I_{rr}	1.0	mA
MAXIMUM THERMAL RESISTANCE (PER LEG)	$R\theta_{JC}$	2.8	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	$T_{op/stg}$	-65 to +175	$^\circ\text{C}$

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TYPICAL ELECTRICAL CHARACTERISTICS



MECHANICAL DIMENSIONS: In Inches / mm



TO-257

PINOUT TABLE

DEVICE TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE
DUAL RECTIFIER/COMMON CATHODE (P)	ANODE 1	COMMON CATHODE	ANODE 2
DUAL RECTIFIER/COMMON ANODE (N)	CATHODE 1	COMMON ANODE	CATHODE 2
DUAL RECTIFIER/DOUBLER (D)	ANODE	ANODE/ CATHODE	CATHODE

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