SENSITRON SEMICONDUCTOR

SHD117036(P/N) SHD117036(P/N)A SHD117036(P/N)B

TECHNICAL DATA DATA SHEET 4566, REV. –

HERMETIC POWER SCHOTTKY RECTIFIER Low Forward Voltage Drop

Add Suffix "S" to Part Number for S-100 Screening.

Applications:

• Switching Power Supply • Converters • Free-Wheeling Diodes • Polarity Protection Diode

Features:

- Ultra low Reverse Leakage Current
- Soft Reverse Recovery at Low and High Temperature
- High Surge Capacity
- Guard Ring for Enhanced Durability and Long Term Reliability

DESCRIPTION: A 200-VOLT, 6.0 AMP DUAL POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD-4/4A/4B PACKAGE.

MAXIMUM RATINGS ALL RA	INGS ALL RATINGS ARE $@T_c = 25 \degree C$ UNLESS OTHERWISE SPECIFIED.				
RATING		SYMBOL	MAX.	UNITS	
PEAK INVERSE VOLTAGE		PIV	200	Volts	
MAXIMUM DC OUTPUT CURRENT (With Cathode Ma	aintained @ T _C =100 ^O C)	Ι _Ο	6.0	Amps	
MAXIMUM NONREPETITIVE FORWARD SURGE CU (t=8.3ms, Sine)	IRRENT	I _{FSM}	55	Amps	
MAXIMUM THERMAL RESISTANCE (Junction to Mou	inting Surface, Cathode)	$R_{ ext{ heta}JC}$	1.8	°C/W	
MAXIMUM OPERATING TEMPERATURE RANGE		Top/Tstg	-65 to + 200	°C	
MAXIMUM STORAGE TEMPERATURE RANGE		Top/Tstg	-65 to + 200	°C	

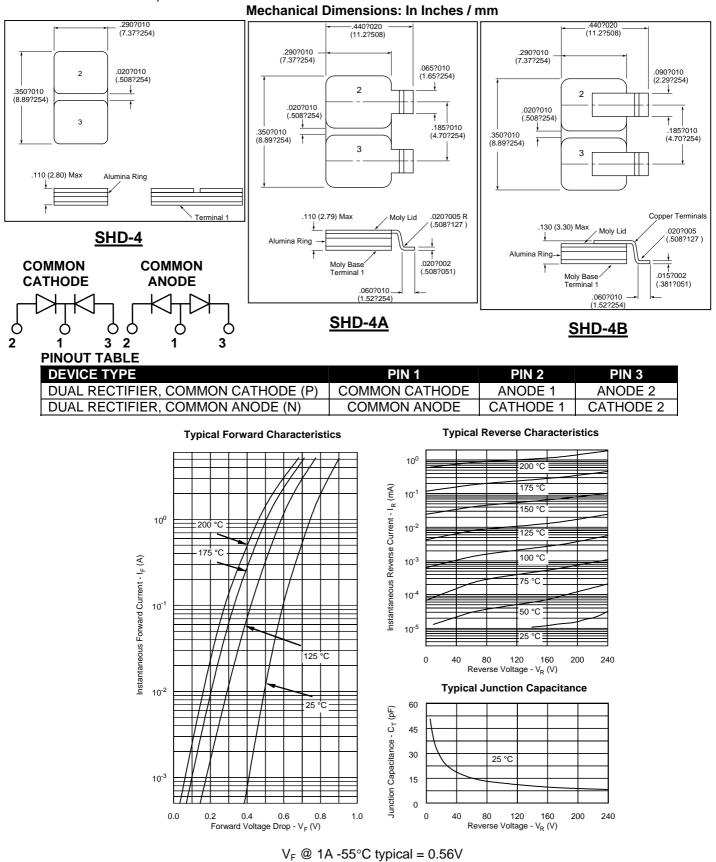
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC		SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 3.0 \text{ Amps}$)				
T _J = 25 °C T _J = 125 °C		V _f	0.92 0.76	Volts
MAXIMUM REVERSE CURRENT (Ir @ 200V PIV)				
T _J = 25 °C T _J = 125 °C		I _r	0.003 0.2	mA
MAXIMUM JUNCTION CAPACITANCE	(V _r =5V)	C _T	60	pF

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TECHNICAL DATA

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