


 SHD1025P
 SHD1026P
 SHD1027P

T-03-21

 TECHNICAL DATA SHEET
 DATASHEET 106 REVISION —

TO-258 STYLE DUAL HERMETIC SCHOTTKY RECTIFIERS

FEATURES

The SHD1025P series dual schottky rectifiers feature an isolated case design for ease in mounting. The devices are constructed with hermetic surface mount modules internally for high reliability under military environmental conditions. No magnetic materials are used in the package and copper leads are utilized resulting in superior high frequency performance.

MAXIMUM RATINGS

(All ratings at $T_A = 25^\circ\text{C}$ unless otherwise specified.)

RATING	SYMBOL	SHD1025P	SHD1026P	SHD1027P	UNIT
PEAK INVERSE VOLTAGE	PIV	30	45	100	VOLTS
AVERAGE DC OUTPUT CURRENT $T_c = 100^\circ\text{C}$	I_o	60	60	45	AMPS
PEAK SINGLE CYCLE SURGE CURRENT PER LEG, $T_p = 8.3 \text{ ms}$ SINGLE HALF SINE, SUPERIMPOSED ON RATED LOAD	I_{FSM}	950	950	575	AMPS
MAXIMUM OPERATING JUNCTION TEMPERATURE	T_j	150	175	175	$^\circ\text{C}$
STORAGE TEMPERATURE RANGE	T_{STG}	-55 to +150	-55 to +150	-55 to +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

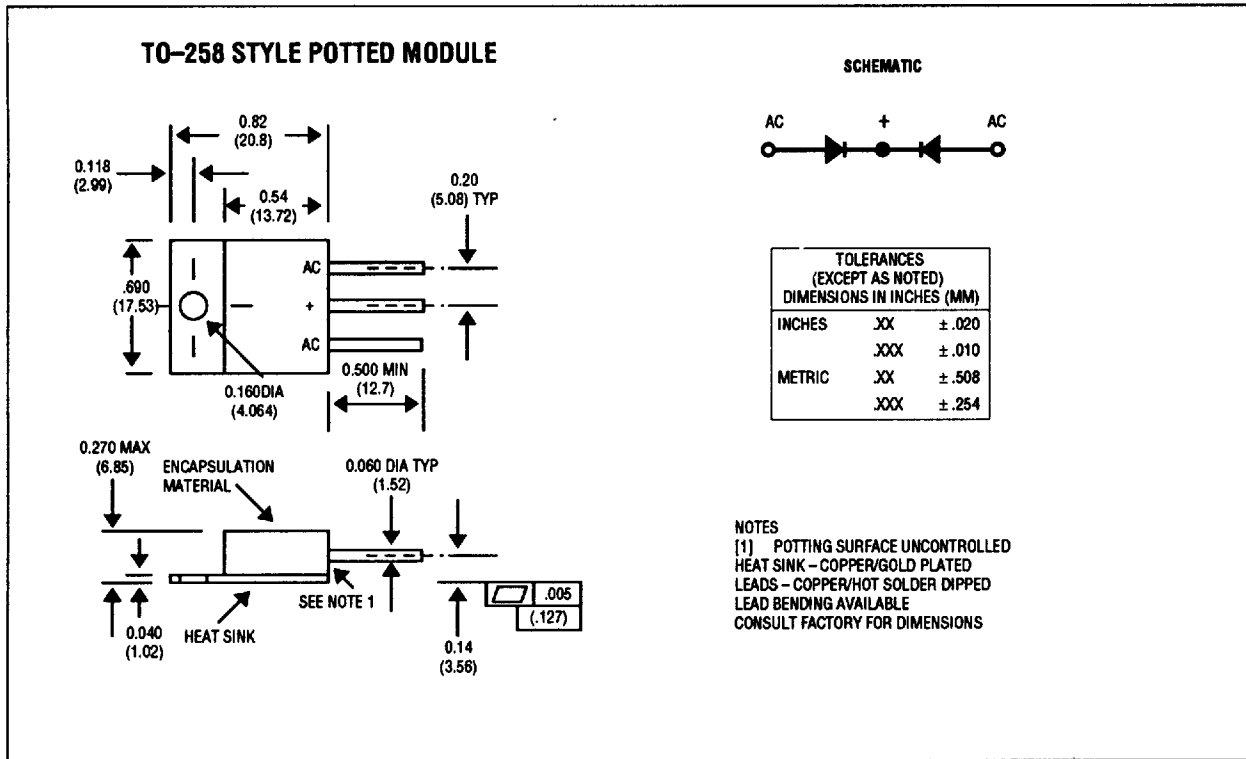
(All ratings at $T_A = 25^\circ\text{C}$ unless otherwise specified.)

MAXIMUM FORWARD VOLTAGE (PER LEG) [1] $T_a = 25^\circ\text{C}$, $I_f = \text{rated } I_o$ $T_a = 125^\circ\text{C}$, $I_f = \text{rated } I_o$	V_f	.55 .48	.72 .65	.85 .77	VOLTS
MAXIMUM INSTANTANEOUS REVERSE CURRENT AT RATED PIV (PER LEG) [1] $T_a = 25^\circ\text{C}$ $T_a = 125^\circ\text{C}$	I_r	5.0 100	5.0 100	5.0 100	mAMPS
MAXIMUM JUNCTION CAPACITANCE PER LEG, $V_r = 5 \text{ VOLTS}$ $1 \text{ KHZ} \leq f \leq 1 \text{ MHZ}$	C_j	2900	2900	1800	pF
MAXIMUM THERMAL RESISTANCE JUNCTION TO CASE	θ_{j-c}	1.0	1.0	1.0	$^\circ\text{C/W}$

[1] Pulse Test: $T_p = 300 \mu\text{sec}$, Duty Cycle $\leq 2\%$

MECHANICAL DIMENSIONS

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CHARACTERISTIC CURVES

**MAXIMUM FORWARD VOLTAGE
 VERSUS FORWARD CURRENT (PULSED)**
 $T_A = 25^\circ\text{C}$

