

50 Amp Center Tapped High Efficiency Rectifier

T0-3

300V, 400V, 500V, 600V

High Surge Capability

25 Amps Per Leg T0-3

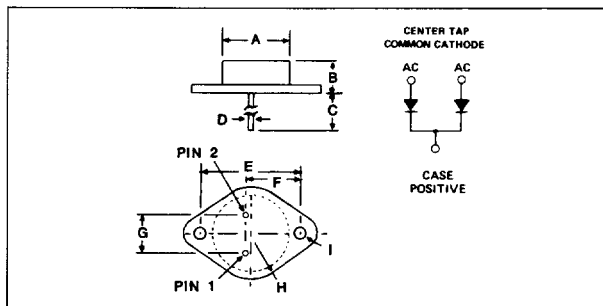
Ultra-Fast Switching Speeds

Low Thermal Resistance

Extremely Low Leakage at High Temperature

Glass Passivated

LTR.	INCHES	MILLIMETERS
A	.74-.76 Dia.	18,80-19,30
B	.323-.342	8,20-8,69
C	.40 Min.	10,16
D	.038-.043 Dia.	.97-1,09
E	1.180-1.194	29,97-30,33
F	.665-.675	16,89-17,15
G	.426-.440	10,82-11,18
H	.525R Max.	13,34
I	.151-.161 Dia.	3,84-4,09



MAXIMUM RATINGS (at 25°C unless otherwise noted)

RATINGS	SYMBOL	VHE2605	VHE2606	VHE2607	VHE2608	UNITS
DC Blocking Voltage	V_{RM}	300	400	500	600	V
Working Peak Reverse Voltage	V_{RWM}					
Peak Repetitive Reverse Voltage	V_{RRM}					
RMS Reverse Voltage	$V_{R(RMS)}$	210	280	350	420	V
Average Rectified Forward Current, $T_C = 90^\circ C$	I_o	50.0				A
Peak Surge Current (Non-Rep) 1/2 cycle, 60 Hz	I_{FSM}	500				A
Operating and Storage Junction Temperature Range	T_{JL} T_{STG}	-65 to +150				°C

ELECTRICAL CHARACTERISTICS (at 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL		UNITS
Maximum Forward Voltage Drop Per Diode at $I_F = 15A$ $I_F = 25A$ $I_F = 50A$	V_{FM}	1.25 1.40 1.60	V
Maximum Instantaneous Reverse Current per Diode at Rated V $T_J = 25^\circ C$ $T_J = 150^\circ C$	I_{RM}	50 1.0	μA mA
Maximum Reverse Recovery Time $I_F = .5A, I_R = 1A, I_{tr} = .25A$	t_r	50	nsec
Maximum Thermal Resistance, Junction-to-Case	R_{JC}	.8	°C/W
Maximum Junction Capacitance $V_R = 10V$	C_J	200	pF

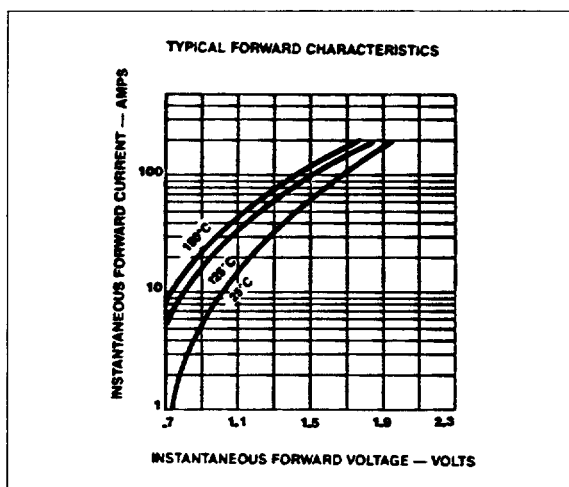


FIGURE 1

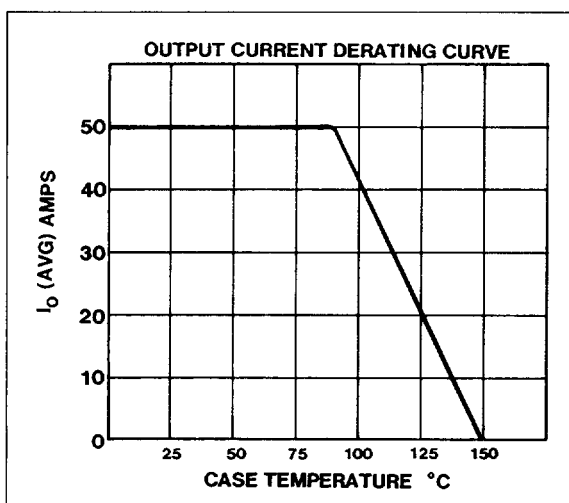


FIGURE 3

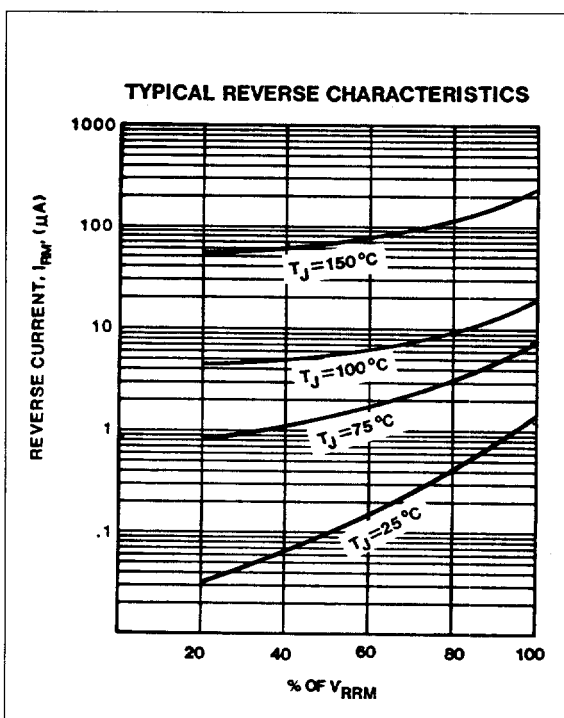


FIGURE 2

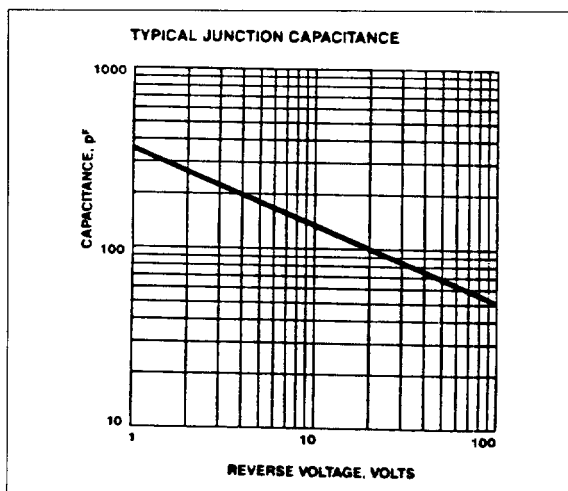


FIGURE 4