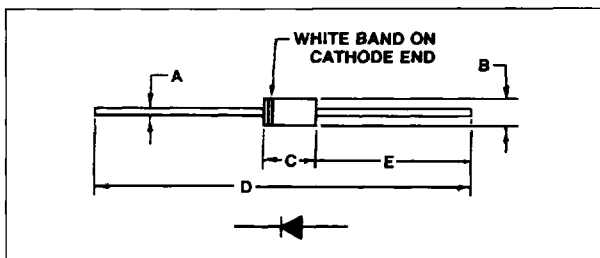


## 6 Amp Epitaxial High Efficiency Rectifiers

50 Volt, 100 Volt, 150 Volt and 200 Volt  $V_{RRM}$   
 Extremely Low Leakage at High Temperature  
 High Surge Capability  
 Very Fast Switching Speeds  
 Minimum Sized, Low Cost Epoxy Encapsulation  
 Glass Passivated



LTR.	INCHES	MILLIMETERS
A	.048-.052 Dia.	1,22-1,32 Dia.
B	.20 Dia.	5,08 Dia.
C	.360-.370	9,14-9,40
D	2.3-2.4	69,85
E	1.137-1.237	28,33-31,42



### MAXIMUM RATINGS ( $T_J = 25^\circ\text{C}$ unless otherwise noted)

RATINGS	SYMBOL	VHE605	VHE610	VHE615	VHE620	UNITS
DC Blocking Voltage	$V_{RM}$	50	100	150	200	Volts
Working Peak Reverse Voltage	$V_{PRM}$					
Peak Repetitive Reverse Voltage	$V_{RRM}$					
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	105	140	Volts
Average Rectified Forward Current @ $T_J = 75^\circ\text{C}$ , $L = .375"$	$I_O$	6.0				Amps
Peak Surge Current (non-rep), $1/2$ cycle, 60 Hz	$I_{FSM}$	150.0				Amps
Operating and Storage Temperature Range	$T_J, T_{STG}$	- 65 to + 150				$^\circ\text{C}$

### ELECTRICAL CHARACTERISTICS ( $T_J = 25^\circ\text{C}$ unless otherwise noted)

CHARACTERISTICS	SYMBOL	$T_J = 25^\circ\text{C}$	$T_J = 100^\circ\text{C}$	UNITS
Maximum Instantaneous Forward Voltage Drop $I_F = 4\text{A}$ $I_F = 6\text{A}$	$V_{FM}$	0.875 0.925	.80 .85	Volts
Maximum Reverse Current at Rated $V_{RM}$ $T_J = 25^\circ\text{C}$ $T_J = 150^\circ\text{C}$	$I_{RM}$	5.0 150.0		$\mu\text{Amps}$
Maximum Reverse Recovery Time $I_F = 0.5\text{A}$ , $I_R = 1\text{A}$ $I_{RR} = 0.25\text{A}$	$t_r$	30		nsec
Typical Junction Capacitance (1)	$C_J$	75		pF

(1) Measured at 1 MHz and an applied voltage of - 10 volts.

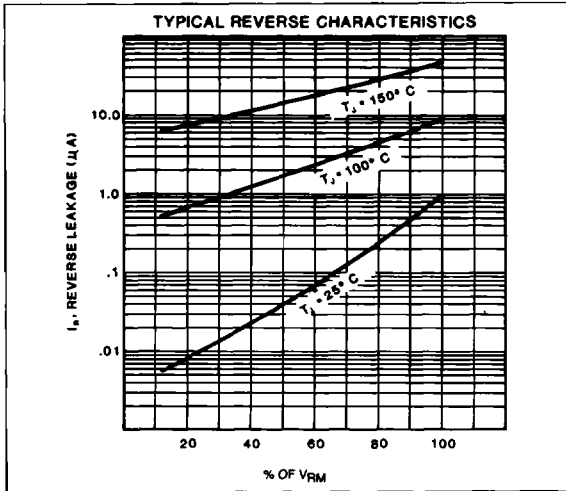


FIGURE 1

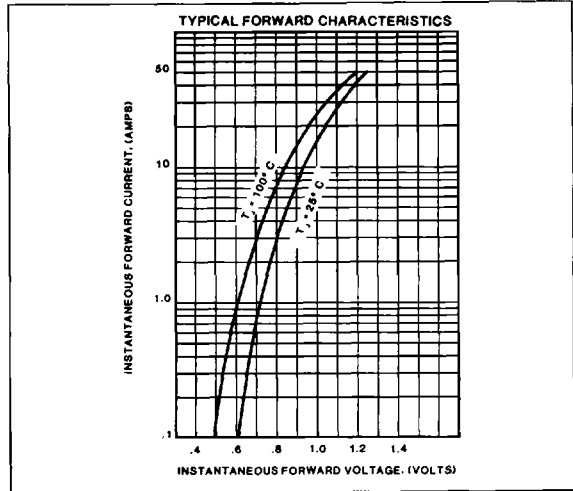


FIGURE 2

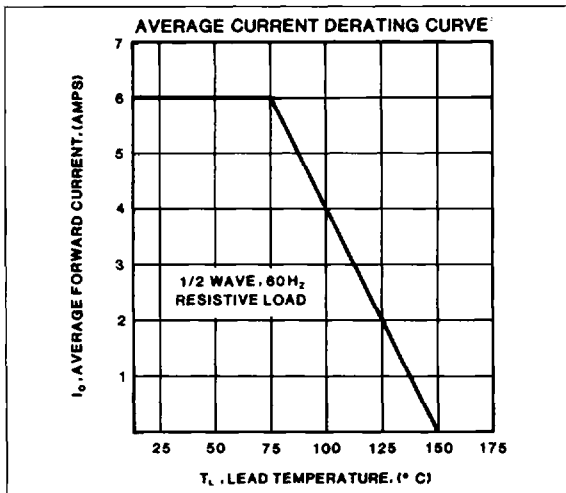


FIGURE 3

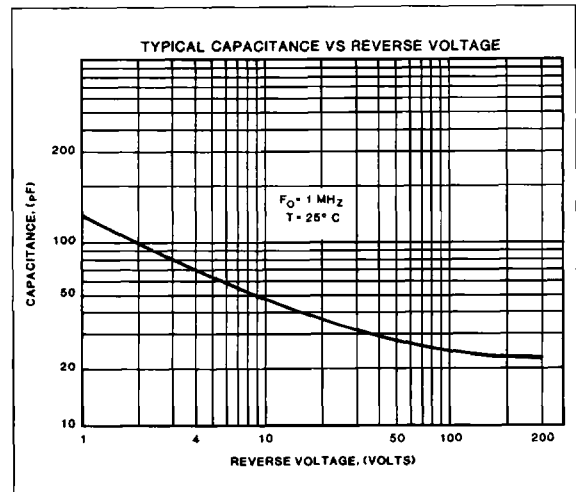


FIGURE 4