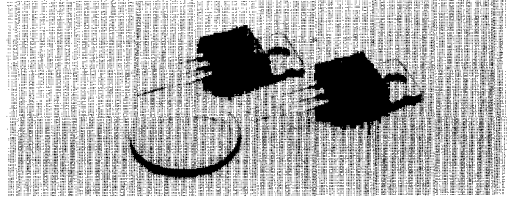


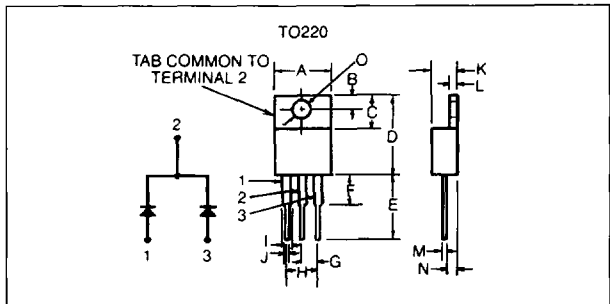
## 20 Amp Epitaxial Center Tapped High Efficiency Rectifiers

300 To 600 Volt  $V_{RRM}$   
 Low Thermal Resistance  
 Low Leakage  
 High Surge Capability  
 Ultra Fast Switching Speeds  
 Glass Passivated



LTR.	INCHES	MILLIMETERS
A	0.415 MAX.	10.54 MAX.
B	.108	2.74
C	.248	6.3
D	0.605 MAX.	15.37 MAX.
E	0.552	14.02
F	0.240 MAX.	6.1 MAX.
G	0.100	2.54
H	0.200	5.08
I	0.050	1.27
J	0.032	0.89
K	.190 MAX.	4.83 MAX.
L	0.050	1.27
M	0.025 MAX.	1.64 MAX.
N	0.105	2.67
O	0.143	3.63

Inch tolerances are  $\pm .005$ .



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

RATINGS	SYMBOL	VHE2405	VHE2406	VHE2407	VHE2408	UNITS
DC Blocking Voltage	$V_{RM}$	300	400	500	600	Volts
Working Peak Reverse Voltage	$V_{RWM}$					
Peak Repetitive Reverse Voltage	$V_{RRM}$					
RMS Reverse Voltage	$V_{R(RMS)}$	210	280	350	420	Volts
Average Rectified Forward Current @ $T_C = 100^\circ\text{C}$	$I_o$	20.0				Amps
Peak Surge Current (non-rep), $\frac{1}{2}$ cycle, 60 Hz	$I_{FSM}$	150.0				Amps
Thermal Resistance, Junction to Case	$R_{\theta JC}$	1.5				$^\circ\text{C}/\text{Watt}$
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	VHE2405	VHE2406	VHE2407	VHE2408	UNITS
Maximum Instantaneous Forward Voltage Drop	$V_{FM}$	$T_J = 25^\circ\text{C}$		$T_J = 100^\circ\text{C}$		Volts
$I_F = 5\text{A}$		1.40		1.15		
$I_F = 10\text{A}$		1.65		1.40		
$I_F = 20\text{A}$		1.95		1.75		
Maximum Reverse Current at Rated $V_{RM}$	$I_{RM}$		10.0			$\mu\text{Amps}$
$T_J = 25^\circ\text{C}$			200.0			
$T_J = 100^\circ\text{C}$ $T_J = 150^\circ\text{C}$			500.0			
Maximum Reverse Recovery Time $I_F = 0.5\text{A}, I_R = 1\text{A},$ $I_{RR} = 0.25\text{A}$	$t_{rr}$		50			nsec.
Typical Junction Capacitance $V_R = 10\text{V}$ .	$C_J$		35			pF

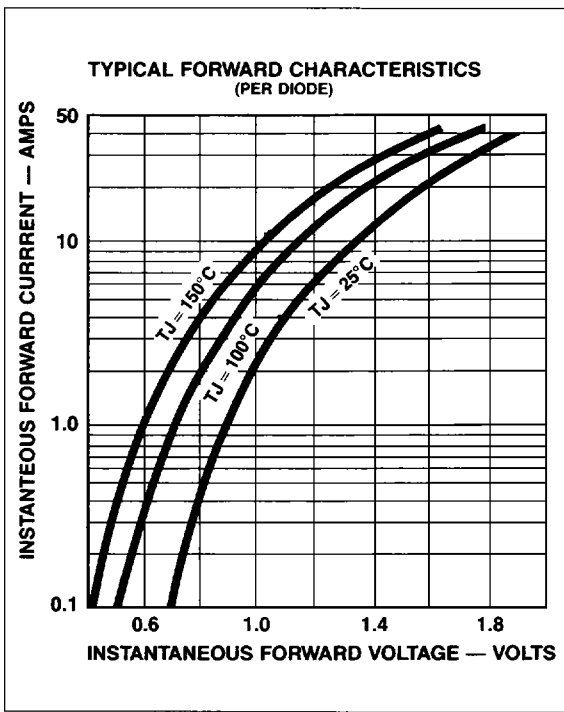


FIGURE 1

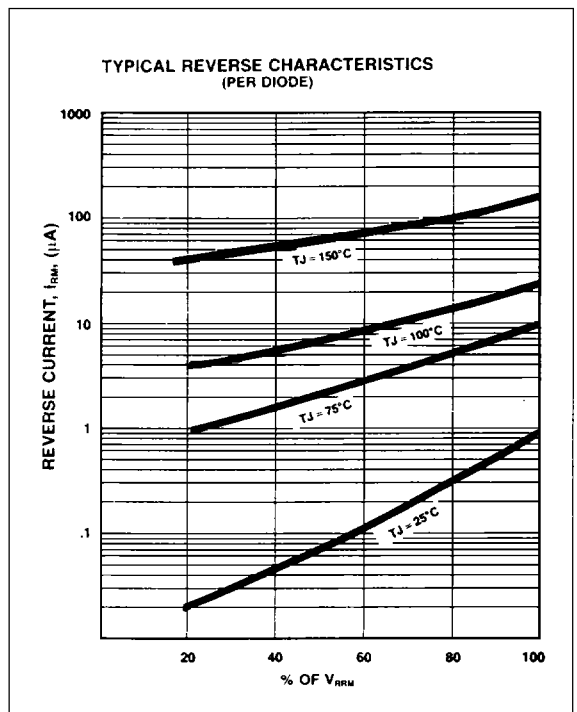


FIGURE 2

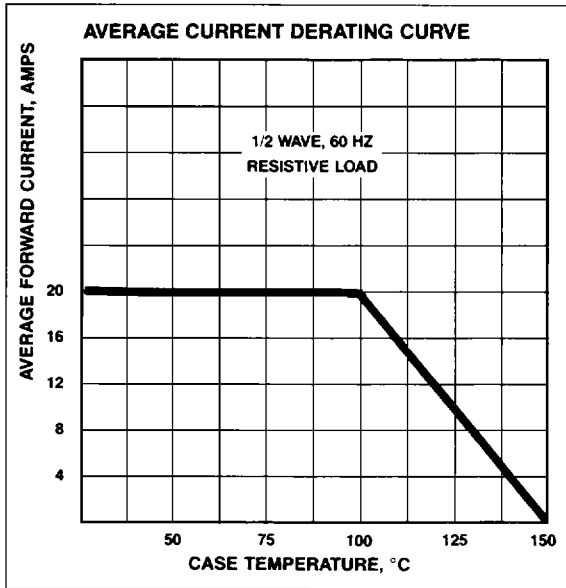


FIGURE 3

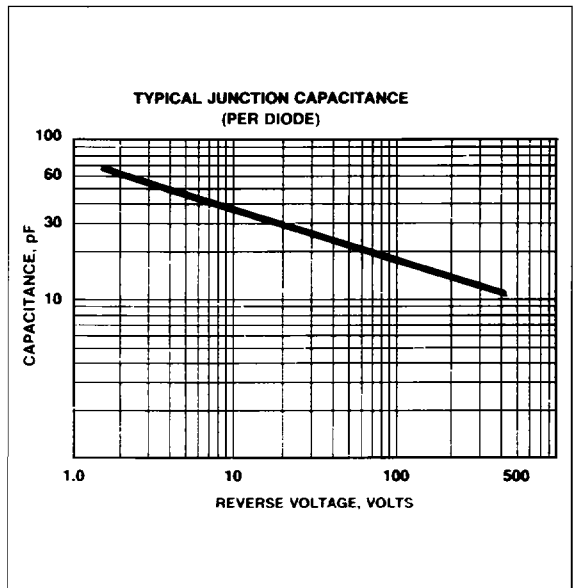


FIGURE 4