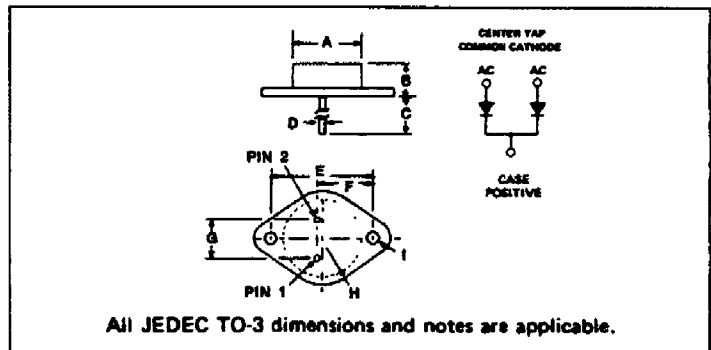


VHE2601 – VHE2604

50 Amp Epitaxial Center Tapped High Efficiency Rectifiers

- 50 Volt, 100 Volt, 150 Volt and 200 Volt V_{RRM}
- Low Thermal Resistance
- Extremely Low Leakage at High Temperature
- High Surge Capability
- Very Fast Switching Speeds
- Glass Passivated
- Standard TO3 Case

LTR.	INCHES	MILLIMETERS
A	.74- .76 Dia.	18,8 -19,3 Dia.
B	.323- .342	8,20- 8,69
C	.40 Min.	10,16
D	.038- .043 Dia.	.97- 1,09 Dia.
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

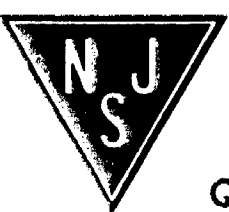


MAXIMUM RATINGS (At $T_J = 25^\circ\text{C}$ unless otherwise noted)

RATINGS	SYMBOL	VHE2601	VHE2602	VHE2603	VHE2604	UNITS
DC Blocking Voltage	V_{RM}					
Working Peak Reverse Voltage	V_{RRM}	50	100	150	200	Volts
Peak Repetitive Reverse Voltage	V_{RRM}					
RMS Reverse Voltage	V_{RRMS}	35	70	105	140	Volts
Average Rectified Forward Current @ $T_C = 115^\circ\text{C}$	I_o	50				Amps
Peak Surge Current (non-rep), 1/2 cycle, 60 Hz	I_{FSM}	500				Amps
Thermal Resistance, Junction to Case	R_{JC}	0.8				$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_J, T_{STG}	- 65 to + 175				$^\circ\text{C}$

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

CHARACTERISTICS	SYMBOL	$T_J = 25^\circ\text{C}$		$T_J = 125^\circ\text{C}$		UNITS
Maximum Instantaneous Forward Voltage per diode $I_F = 15\text{A}$ $I_F = 25\text{A}$ $I_F = 100\text{A}$	V_{FM}	0.93	1.0	0.8	0.87	Volts
Maximum Reverse Current at Rated V_{RM} per diode $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$ $T_J = 175^\circ\text{C}$	I_{RM}			20	200	μA
Maximum Reverse Recovery Time $I_F = 1/2\text{A}, I_R = 1\text{A}, I_{RR} = 0.25\text{A}$	t_r	35				nsec
Maximum Capacitance, $V_R = 10\text{V}$	C_J	500				pF



NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

Quality Semi-Conductors