

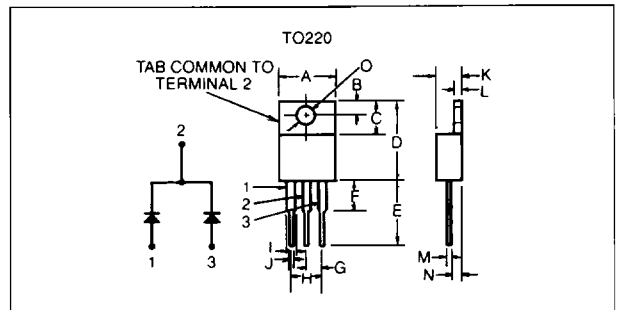
20 Amp Center Tapped Schottky Rectifier 175°C MAX T_J

Extremely Low Leakage at High Temperature
Very Fast Switching Speeds
High Surge Capability
Low Thermal Resistance
Economical TO220 Package



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	.0240 MAX.	6.1 MAX.
G	0.100	2.54
H	0.200	5.08
I	0.050	1.27
J	0.035	0.89
K	.190 MAX.	4.83 MAX.
L	0.050	1.27
M	0.025 MAX.	0.64 MAX.
N	0.105	2.67
O	0.143	3.63

(2) Inch Tolerances ± .005



MAXIMUM RATINGS	SYMBOL	VSK 2020	VSK 2035	VSK 2045	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}				
Working Peak Reverse Voltage	V_{RWM}		35		Volts
DC Blocking Voltage	V_R				
Average Rectified Forward Current (Rated V_R) $T_C = 135^\circ\text{C}$ (per device)	I_o		20		Amps
Peak Repetitive Forward Current (per diode) (Rated V_R Square Wave 20 kHz) $T_C = 135^\circ\text{C}$	I_{FRM}		20		Amps
Nonrepetitive Peak Surge Current (per diode) (Surge applied at rated load conditions halfwave single phase. 60 Hz)	I_{FSM}		150		Amps
Peak Repetitive Reverse Surge Current (2.0 μs . 2.0 kHz)	I_{RRM}		1.0		Amps
Operating Junction Temperature	T_J		- 65 to + 175		$^\circ\text{C}$
Storage Temperature	T_{STG}		- 65 to + 175		$^\circ\text{C}$
Voltage Rate of Change (Rated V_R)	dv/dt		1000		V/ μs

THERMAL CHARACTERISTICS	SYMBOL	VSK 2020	VSK 2035	VSK 2045	UNITS
Maximum Thermal Resistance. Junction to Case (Total Package)	$R_{\theta JC}$		1.75		$^\circ\text{C}/\text{W}$

ELECTRICAL CHARACTERISTICS	SYMBOL	VSK 2020	VSK 2035	VSK 2045	UNITS
Maximum Instantaneous Forward Voltage (per diode) $I_F = 10 \text{ A}$, $T_C = 150^\circ\text{C}$ $I_F = 20 \text{ A}$, $T_C = 150^\circ\text{C}$ (See Fig. 1) $I_F = 10 \text{ A}$, $T_C = 25^\circ\text{C}$	V_F		0.57 0.72 0.84		Volts
Maximum Instantaneous Reverse Current (per diode) Rated dc Voltage, $T_C = 150^\circ\text{C}$ Rated dc Voltage, $T_C = 125^\circ\text{C}$ (See Fig. 2) Rated dc Voltage, $T_C = 25^\circ\text{C}$	I_R		10 5 1		mA

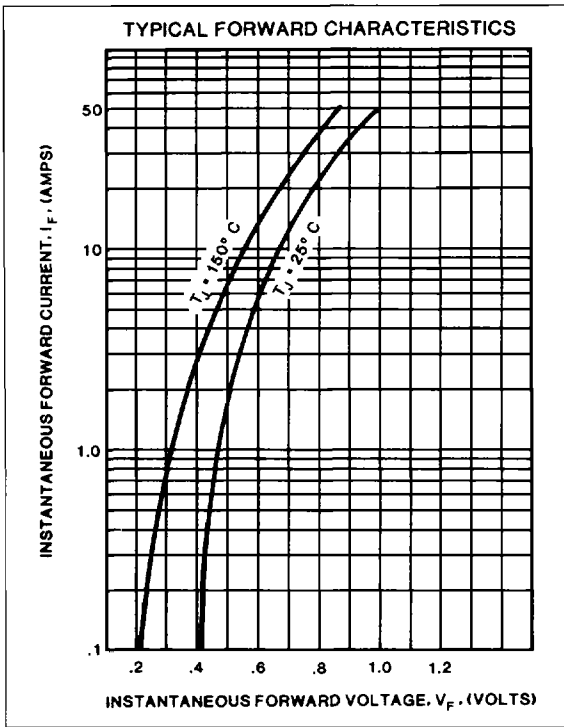


FIGURE 1

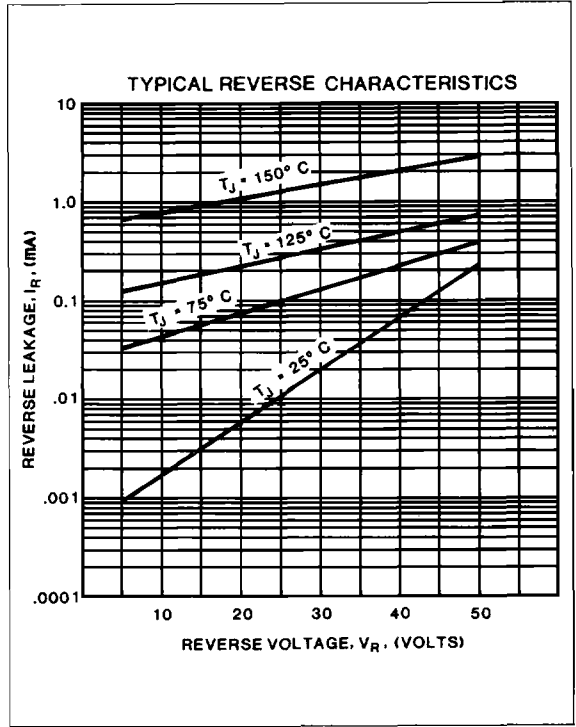


FIGURE 2

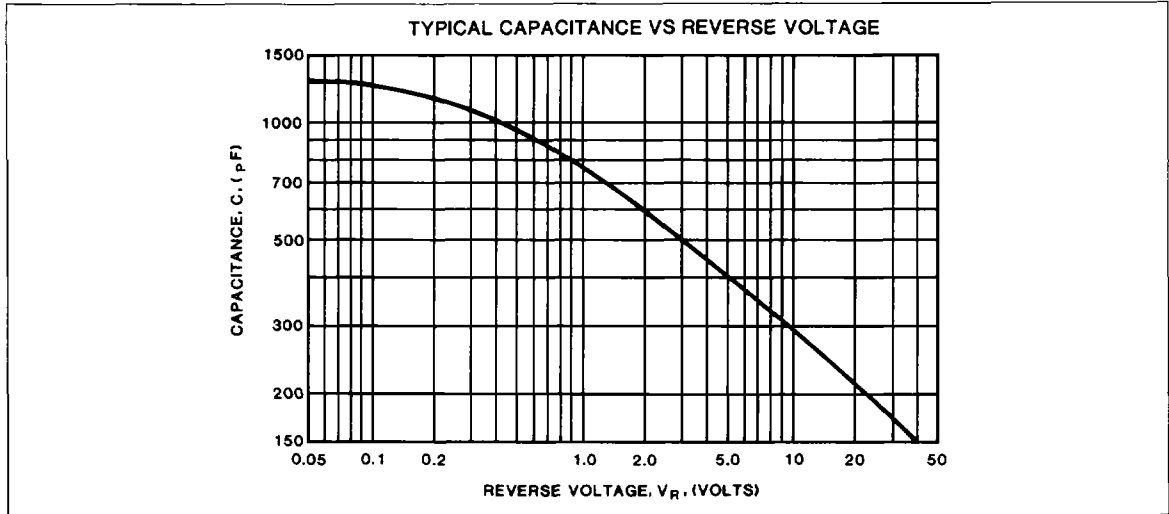


FIGURE 3