

16 Amp Schottky Rectifier 150°C MAX T_J

20 Volt, 35 Volt, and 45 Volt V_{RR}

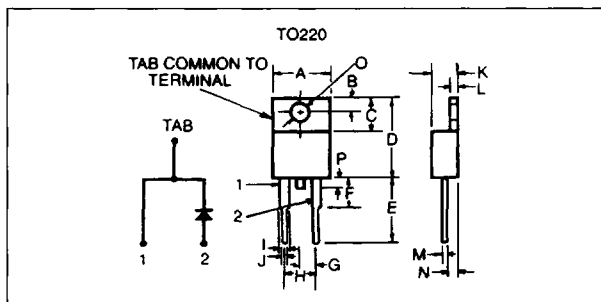
16 Amps average output current I_O

Plastic T0220 package

These units are designed to provide an economical 16 amp Schottky output. They should be used in high frequency power supplies where efficiency and reliability are of the utmost importance.



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	0,81
K	.190 Max	4,83 Max
L	0.050	1,27
M	0.022	0,56
N	0.105	2,67
O	0.143	3,63
P	.135 Max	3,43 Max



Inch tolerances ± .005

MAXIMUM RATINGS (At T_A = 25°C unless otherwise noted)

RATINGS	SYMBOL	VSK920	VSK935	VSK945	UNITS
DC Blocking Voltage	V _{RRM}	20	35	45	Volts
Working Peak Reverse Voltage	V _{RWM}				
Peak Repetitive Reverse Voltage	V _{RRM}				
RMS Reverse Voltage	V _{RRMS}	14	25	32	Volts
Average Rectified Forward Current T _C = 100°C	I _O		16		Amps
Peak Surge Current (non rep) at 60Hz, 1/2 Cycle	I _{FSM}		300		Amps
Junction Operating & Storage Temperature Range	T _J , T _{STG}		- 65 to + 150		°C
Thermal Resistance, Junction-To-Case	R _{θJC}		3.0		°C/W

ELECTRICAL CHARACTERISTICS (At T_A = 25°C unless otherwise specified)

CHARACTERISTICS	SYMBOL	VSK920	VSK935	VSK945	UNITS
Maximum Instantaneous Forward Voltage Drop (Fig. 2) I _F = 16A @ T _J = 25°C I _F = 16A @ T _J = 100°C	V _F		.56 .52		Volts
Maximum Instantaneous Reverse Current (Fig. 1) Rated V _{RRM} @ T _J = 25°C Rated V _{RRM} @ T _J = 100°C	I _R		10.0 75.0		mA

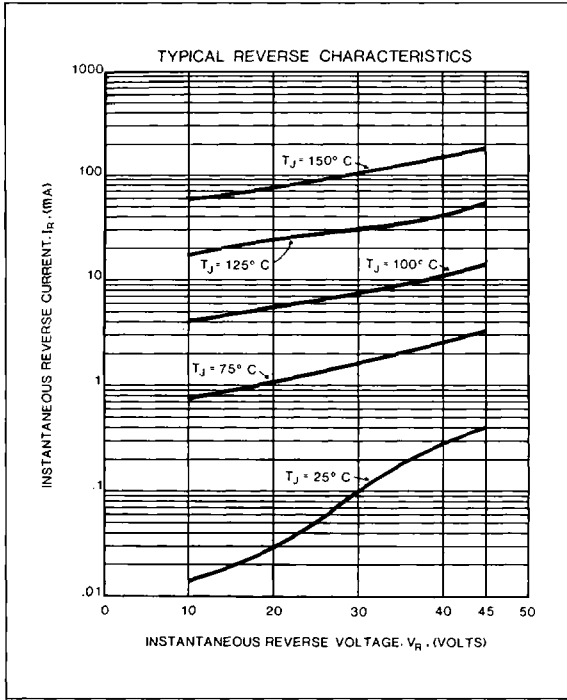


FIGURE 1

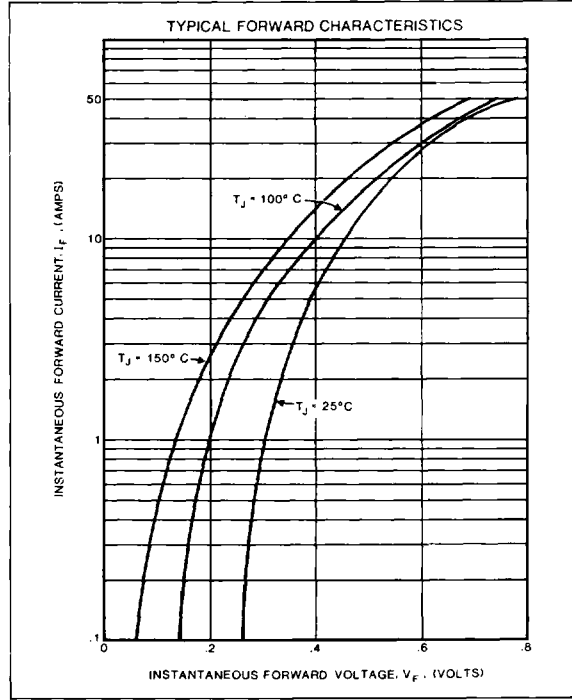


FIGURE 2

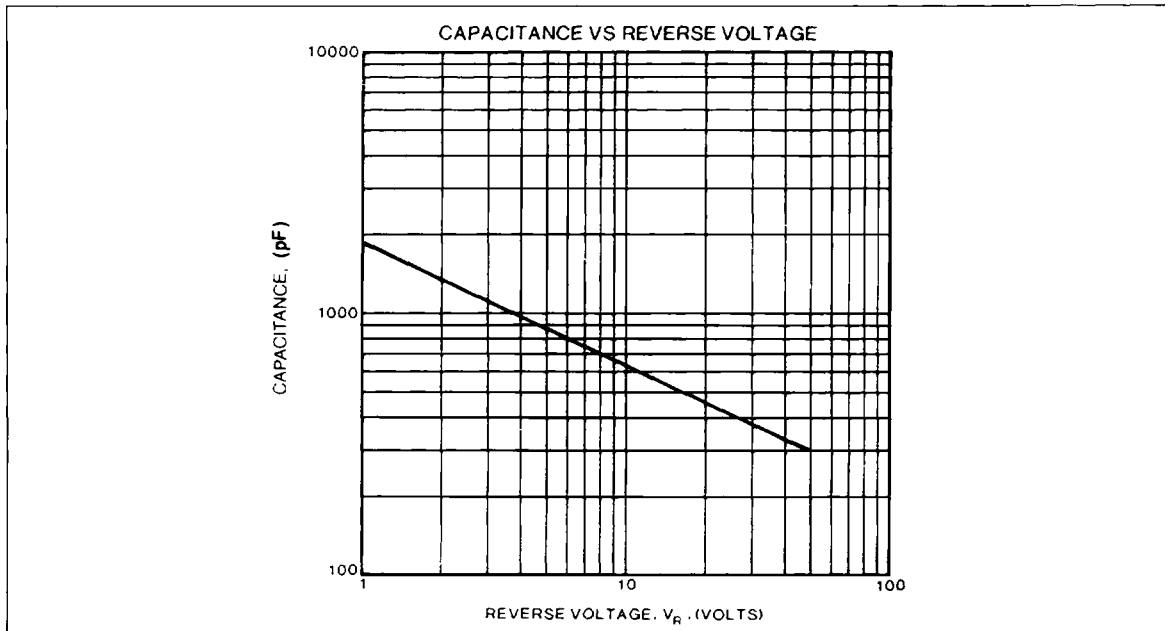


FIGURE 3