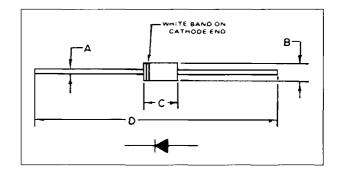


8 Amp Schottky Rectifiers 175°C MAX T,

35 Volt, 40 and 45 Volt V_{RRM} .58 Volt V_{F} (Typical) at $I_{\text{F}}=8.0$ Amp Very Fast Switching Speed Minimum Sized, Low Cost Epoxy Encapsulation

LTR.	INCHES	MILLIMETERS		
Α	.048052	1,22-1,32 Dia.		
Вј	.190–.225	4,83-5,72		
C	.370390	9,40-9,91		
D	2.750	69,85		



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

RATINGS	SYMBOL	VSK835	VSK840	VSK845	UNITS
DC Blocking Voltage Working Peak Reverse Voltage Peak Repetitive Reverse Voltage	V _{RM} V _{RWM} V _{RRM}	35	40	45	Volts
RMS Reverse Voltage	V _{R(PMS)}	25	28	32	Volts
Average Recified Forward Current	Io	8.0		Amps	
Peak Surge Current (non-rep), 300μs Pulse Width	I _{FSM}	500			Amps
Peak Surge Current (non-rep), ½ cycle, 60 Hz	I _{FSM}	250			Amps
Operating Junction Temperature	T _J	- 65 to + 175			°C
Storage Temperature	T _{STG}	− 65 to + 175			°C

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

CHARACTERISTICS		SYMBOL	V\$K835	VSK840	VSK845	UNITS
Maximum Instantaneous Forward Voltage Drop						
	$I_F = 5.0 \text{ Amps}$	V _F		.55		
	I _F = 8.0 Amps			.60		Volts
Maximum Instantaneous Reverse Current						
at Rated V _{RM}		l l _B]				
	T _. = 25°C			1.0		l
	T _J = 150°C			20.0] mA

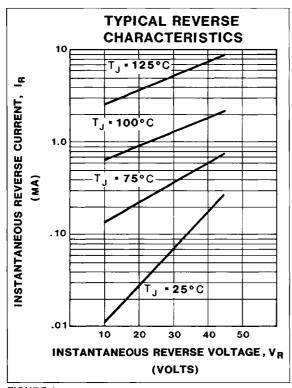


FIGURE 1

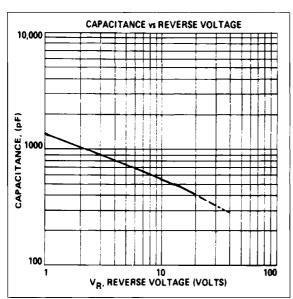


FIGURE 3

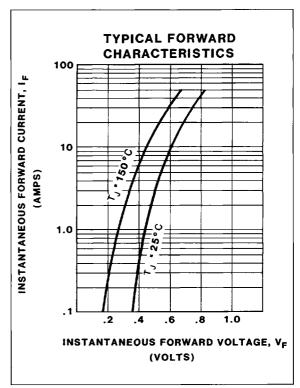


FIGURE 2

The current flow in a Schottky barrier rectifier is due to majority carrier conduction and is not affected by reverse recovery transients due to stored charge and minority carrier injection as in conventional PN diodes.

The Schottky barrier rectifier may be considered for purposes of circuit analysis, as an ideal diode in parallel with a variable capacitance equal in value to the junction capacitance. See Figure 3.