

## 75 Amp Schottky VSK71, VSK72 175°C MAX T<sub>J</sub>

50 Volts and 60 Volts V<sub>RRM</sub>

175°C Junction Operating Temperature

Lowest I<sub>R</sub> in the Industry

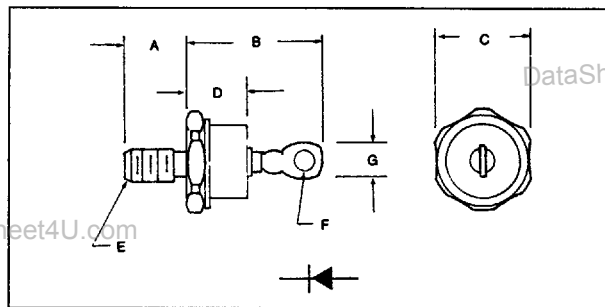
Exceptional dv/dt: 2000 V/μs

DO5 Package

JEDEC Package 203AB (formerly DO-5)

LTR.	MILLIMETERS		INCHES	
	Min.	Max.	Min.	Max.
A	10,72	11,50	.422	.453
B	19,05	25,40	.750	1.000
C	17,00	17,47	.669	.688
D	—	11,43	—	.450
E	1/4-28 UNF-2A	—	1/4-28 UNF-2A	—
F	3,56	4,44	.140	.175
G	—	9,52	—	.375

Mounting Torque: 20 inch-lbs Min.  
30 inch-lbs Max.



### MAXIMUM RATINGS (At T<sub>J</sub> = 25°C unless otherwise noted)

RATINGS	SYMBOL	VSK71	VSK72	UNITS
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	60	50	Volts
Working Peak Reverse Voltage	V <sub>RRM</sub>	50	40	Volts
Peak Rectified Forward Current @ 50% Duty Cycle	I <sub>F</sub>	150		Amps
Peak Surge Current (non-rep), 1/2 cycle, 60 Hz	I <sub>FSM</sub>	1000		Amps
Operating Junction Temperature	T <sub>J</sub>	- 65 to + 175		°C
Storage Temperature	T <sub>STG</sub>	- 65 to + 175		°C
Thermal Resistance, Junction to Case	R <sub>θJC</sub>	0.8		°C/W

### ELECTRICAL CHARACTERISTICS (At T<sub>J</sub> = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	VSK71	VSK72	UNITS
Maximum Instantaneous Forward Voltage Drop I <sub>F</sub> = 60 Amps I <sub>F</sub> = 75 Amps I <sub>F</sub> = 150 Amps I <sub>F</sub> = 220 Amps	V <sub>F</sub>	25°C 0.73 0.885	125°C 0.6 0.58 0.70	Volts
Maximum Instantaneous Reverse Current at Rated V <sub>RRM</sub> T <sub>J</sub> = 25°C T <sub>J</sub> = 125°C T <sub>J</sub> = 150°C	I <sub>R</sub>		20 50 100	
Junction Capacitance V <sub>R</sub> = 5 volts	C <sub>J</sub>	2500		pF
Rate of Change (V <sub>R</sub> vs Time) V <sub>R</sub> = max.	dv/dt	2000		V/μs
Maximum Repetitive Peak Reverse Current 20 μ sec pulse, f = 2KHz	I <sub>RM</sub>	5		Amps

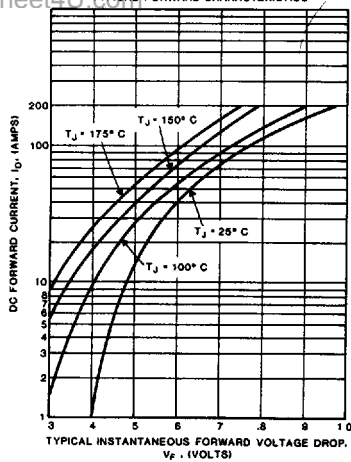


FIGURE 1

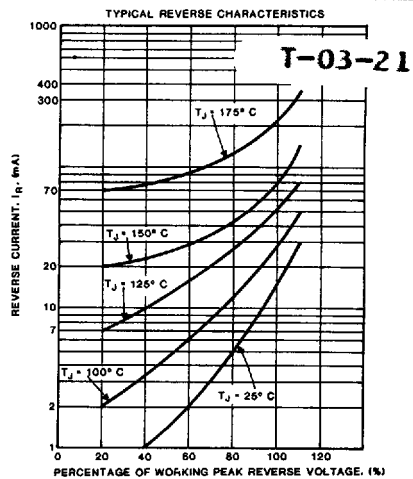


FIGURE 2

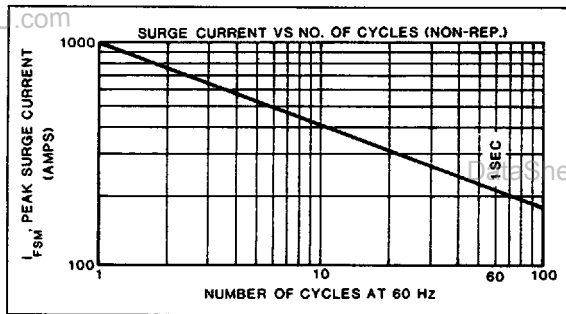


FIGURE 3

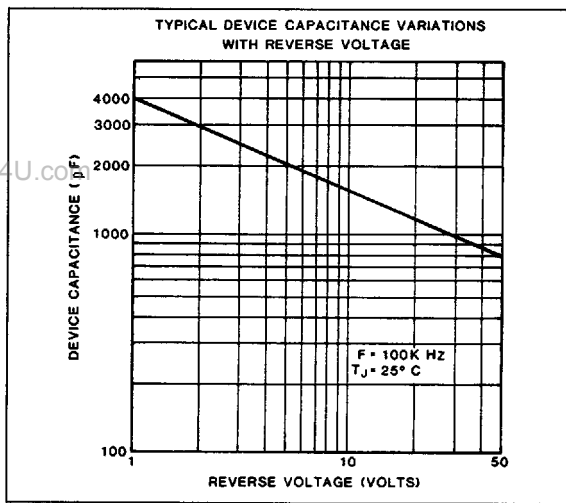


FIGURE 4

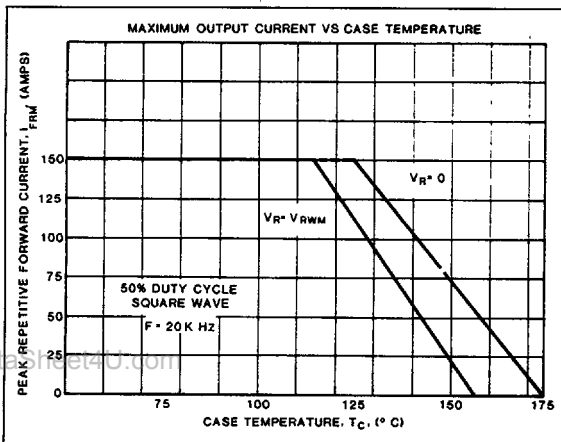


FIGURE 5