

II. Schottky Bridge Rectifier

SDF22S thru SDF210S

SURFACE MOUNT SCHOTTKY BARRIER BRIDGE RECTIFIERS	REVERSE VOLTAGE - 20 to 100Volts FORWARD CURRENT - 2.0 Ampere								
<p>FEATURES</p> <ul style="list-style-type: none"> ● For surface mounted applications ● Metal-Semiconductor junction with guarding ● Epitaxial construction ● Very low forward voltage drop ● High current capability ● Plastic material has UL flammability classification 94V-0 ● For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications. <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> ● Case: Molded Plastic ● Polarity: Indicated by cathode band ● Weight: 0.02 ounces, 0.38 grams 	<p>DFS</p> <p style="text-align: center;">Dimensions in inches and (millimeters)</p>								
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS									
Rating at 25°C ambient temperature unless otherwise specified.									
Single phase, half wave ,60Hz, resistive or inductive load.									
For capacitive load, derate current by 20%									
CHARACTERISTICS	SYMBOL	SDF22S	SDF23S	SDF24S	SDF25S	SDF26S	SDF28S	SDF210S	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current @T _L =100 °C	I _(AV)	2.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	I _{FSM}	60							A
Maximum Forward Voltage at 2.0A DC	V _F	0.55			0.70		0.85		V
Maximum DC Reverse Current @T _J =25°C at Rated DC Blocking Voltage @T _J =100°C	I _R	1.0							mA
Typical Junction Capacitance (Note1)	C _J	110							pF
Typical Thermal Resistance (Note2)	R _{θJL}	20							°C/W
Operating Junction Temperature Range	T _J	-55~+125							°C
Storage Temperature Range	T _{STG}	-55~+150							°C
<p>NOTES:1. Measured at 1.0MHZ and applied reverse voltage of 4.0 V DC.</p> <p>2. Thermal resirance from junction to lead.</p>									

RATING AND CHARACTERISTIC CURVES SDF22S thru SDF210S

FIG. 1 - FORWARD CURRENT DERATING CURVE

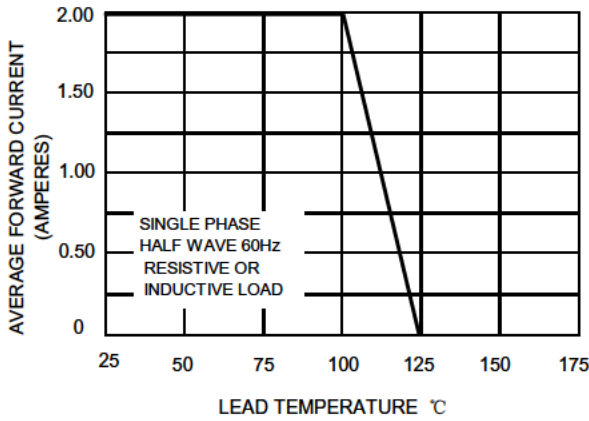


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

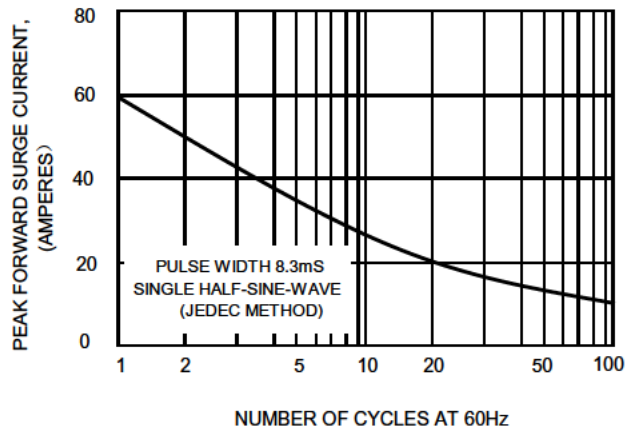


FIG.3-TYPICAL FORWARD CHARACTERISTICS

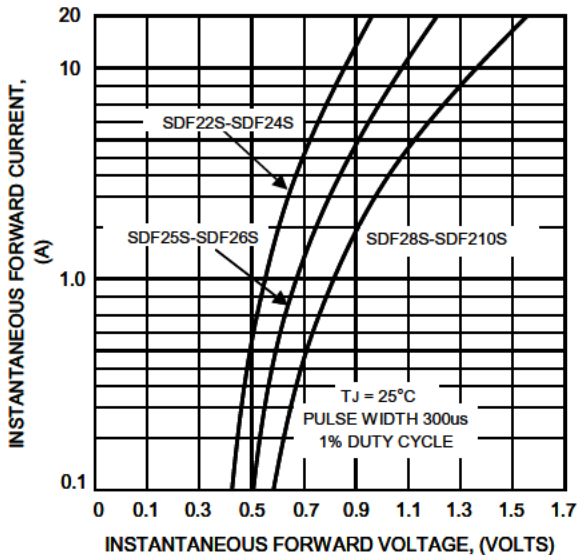


FIG.4-TYPICAL JUNCTION CAPACITANCE

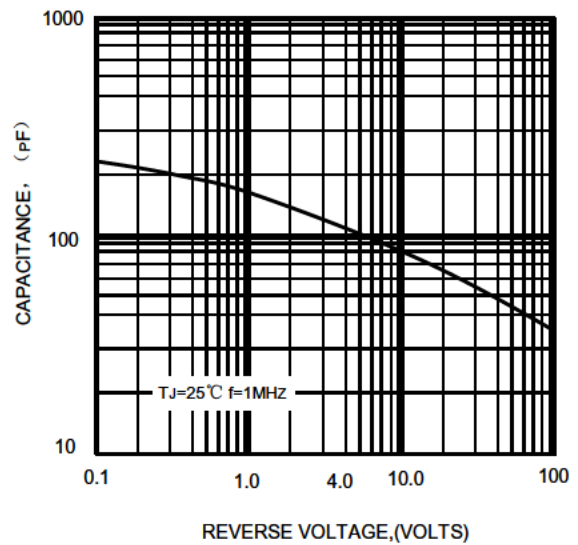


FIG.5-TYPICAL REVERSE CHARACTERISTICS

