

<p>SUPERFAST RECOVERY RECTIFIERS</p>	<p>REVERSE VOLTAGE - 50 to 600 Volts FORWARD CURRENT - 6.0 Amperes</p>
<p>FEATURES</p> <ul style="list-style-type: none"> ● Super fast switching time for high efficiency ● Low forward voltage drop High current capability ● Low reverse leakage current ● Plastic material has UL flammability classification 94V-0 <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> ● Case: JEDEC R-6 molded plastic ● Polarity: Color band denotes cathode ● Weight: 0.07 ounces , 2.1 grams ● Mounting position: Any 	<p>R - 6</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	SF61	SF62	SF63	SF64	SF65	SF66	SF68	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	V
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current @T _A =55 °C	I _(AV)	6.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I _{FSM}	200							A
Peak Forward Voltage at 4.0A DC(Note1)	V _F	0.975				1.35			V
Maximum DC Reverse Current @T _J =25°C at Rated DC Bolcking Voltage @T _J =100°C	I _R	10				100			μA
Maximum Reverse Recovery Time(Note 1)	T _{RR}	35				50			nS
Typical Junction Capacitance (Note2)	C _J	100				85			pF
Typical Thermal Resistance (Note3)	R _{θJA}	5							°C/W
Operating Temperature Range	T _J	-55 to +125							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

NOTES: 1.Measured with I_F=0.5A,I_R=1A,I_{RR}=0.25A.
 2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC
 3.Thermal resistance junction to ambient,

FIG. 1 – FORWARD CURRENT DERATING CURVE

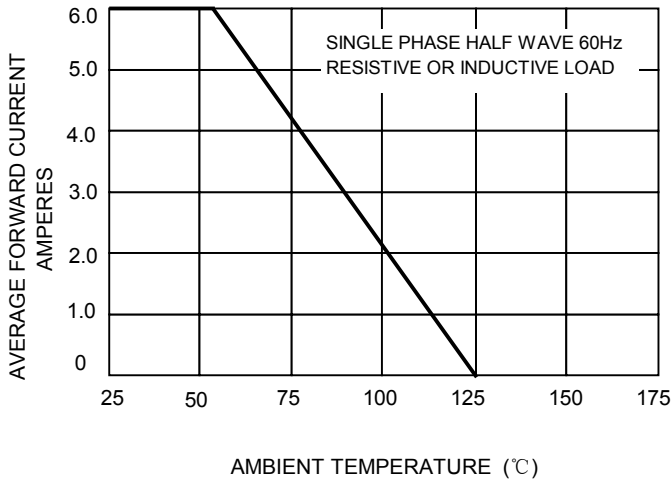


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

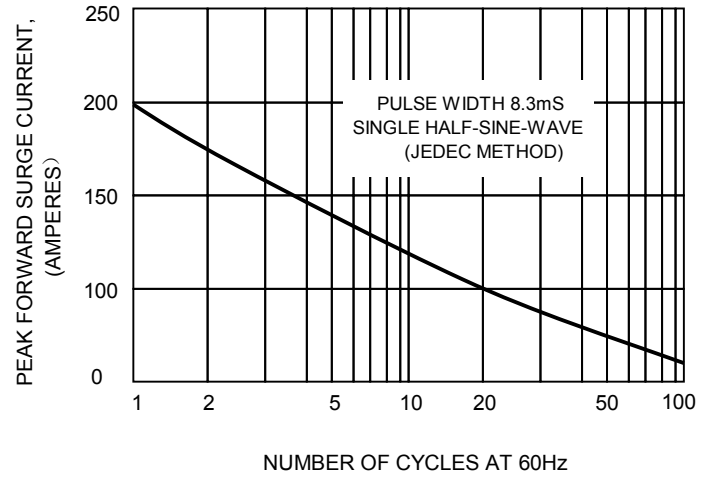


FIG.3 – TYPICAL JUNCTION CAPACITANCE

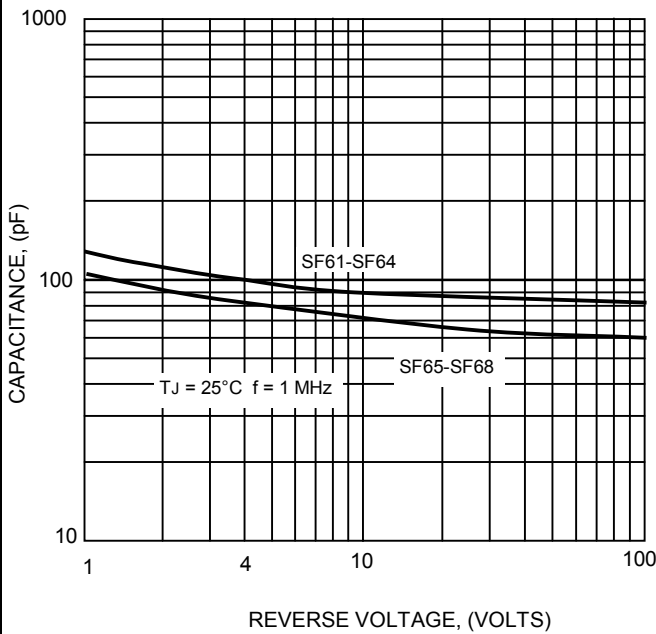


FIG.4-TYPICAL FORWARD CHARACTERISTICS

