

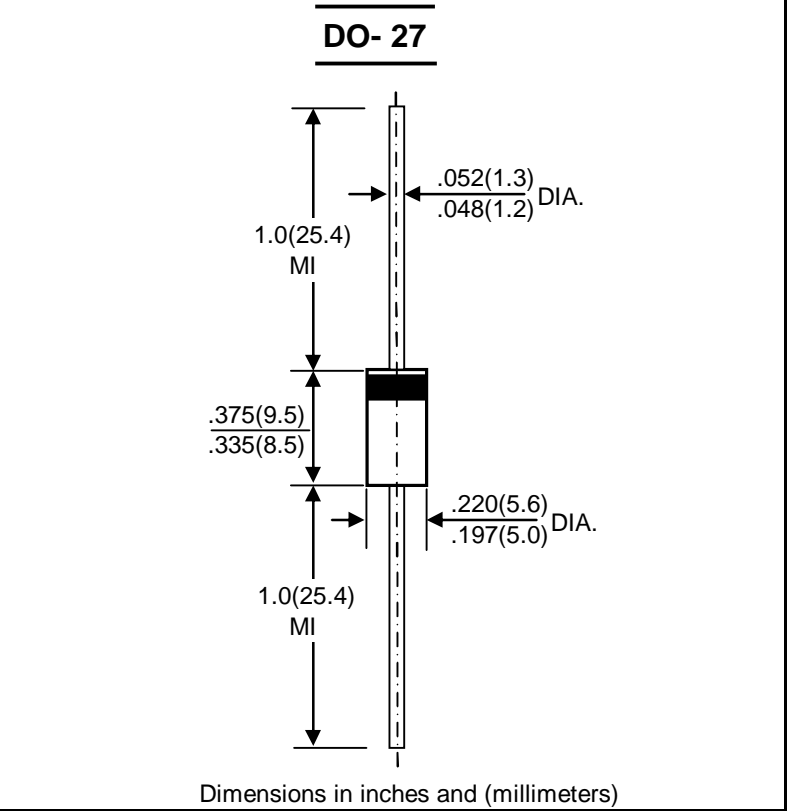
SUPERFAST RECOVERY RECTIFIERS	REVERSE VOLTAGE - 50 to 600 Volts FORWARD CURRENT - 4.0 Amperes
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FEATURES

- 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

MECHANICAL DATA

- Case: JEDEC DO-27 molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.04 ounces , 1.1 grams
- Mounting position: Any



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	SF41	SF42	SF43	SF44	SF45	SF46	SF48	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	150	200	300	400	600	V
Maximum RMS Voltage	VRMS	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	VDC	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current @TA =55 °C	I(AV)	4.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	150							A
Peak Forward Voltage at 4.0A DC(Note1)	VF	0.95				1.25			V
Maximum DC Reverse Current @TJ=25°C at Rated DC Bolcking Voltage @TJ=100°C	IR	5.0				100			uA
Maximum Reverse Recovery Time(Note 1)	Trr	35							nS
Typical Junction Capacitance (Note2)	CJ	80				60			pF
Typical Thermal Resistance (Note3)	RθJA	15							°C/W
Operating Temperature Range	TJ	-55 to +125							°C
Storage Temperature Range	TSTG	-55 to +150							°C

NOTES: 1.Measured with IF=0.5A,IR=1A,IRR=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

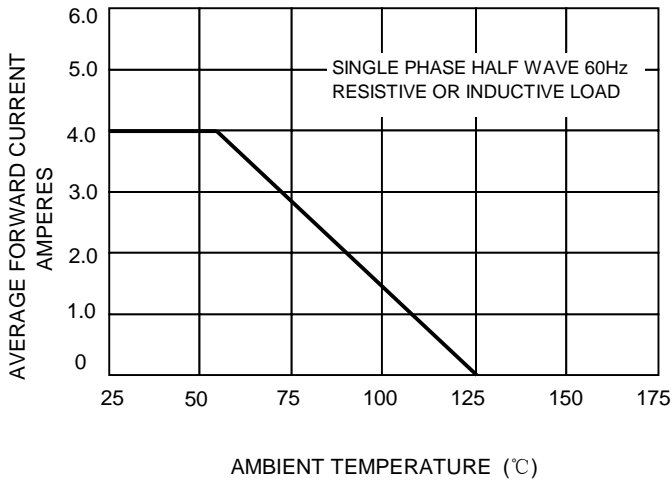


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

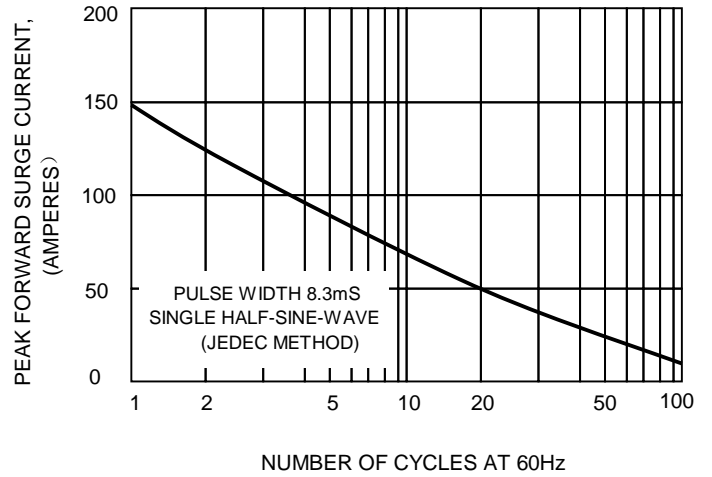


FIG.3 – TYPICAL JUNCTION CAPACITANCE

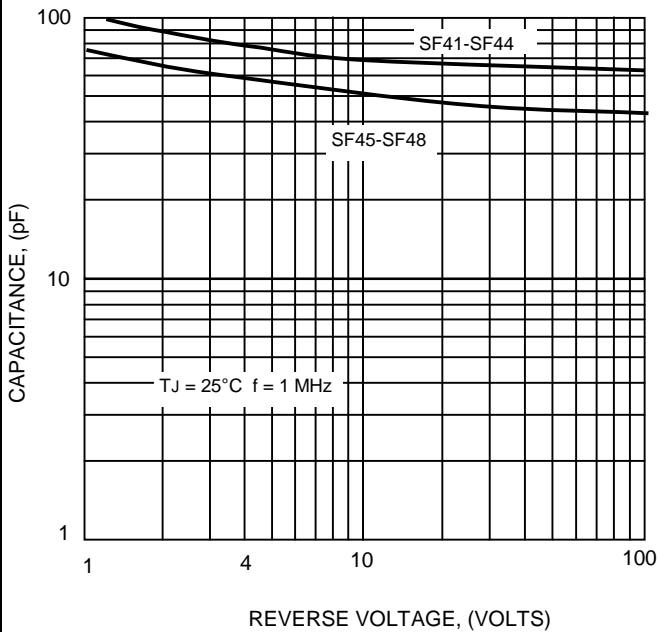


FIG.4-TYPICAL FORWARD CHARACTERISTICS

