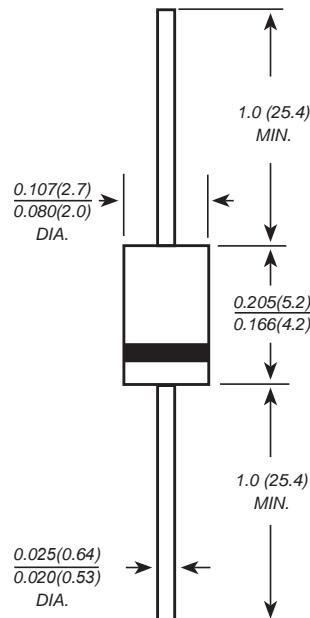




SUPER FAST RECTIFIER

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 Idea
- ◆ for printed circuit board
- ◆ Super fast switching for high efficiency
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed 250°C / 10 seconds at terminals

DO-41 ROHS
COMPLIANT

Dimensions in inches and (millimeters)

Mechanical Data**Case :** JEDEC DO-41 Molded plastic body**Terminals :** Solder plated, solderable per MIL-STD-750, Method 2026**Polarity :** Polarity symbol marking on body**Mounting Position :** Any**Weight :** 0.012 ounce, 0.33 grams**Maximum Ratings And Electrical Characteristics**

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	SF11	SF12	SF13	SF14	SF15	SF16	SF18	UNITS
Marking Code		MDD SF11	MDD SF12	MDD SF13	MDD SF14	MDD SF15	MDD SF16	MDD SF18	
Maximum repetitive 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 at T _A =55°C	I _(AV)					1.0			A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}					30.0			A
Maximum instantaneous forward voltage at 1.0A	V _F			0.95		1.25		1.7	V
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=100°C	I _R				5.0	50.0			µA
Maximum reverse recovery time (NOTE 1)	trr				35				ns
Typical junction capacitance (NOTE 2)	C _J			15.0		10.0			pF
Typical thermal resistance (NOTE 3)	R _{θJA}				60.0				°C/W
Operating junction and storage temperature range	T _J , T _{STG}				-65 to +150				°C

Note: 1. Reverse recovery condition I_F=0.5A, I_R=1.0A, I_{rr}=0.25A

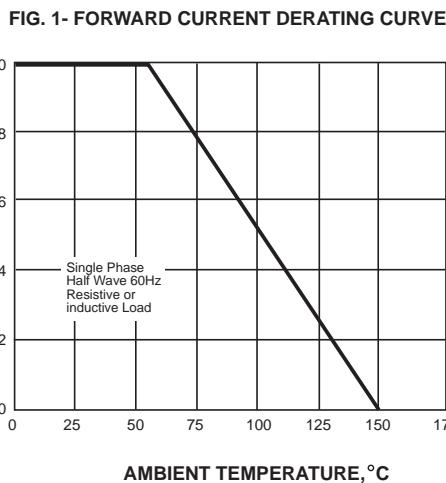
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

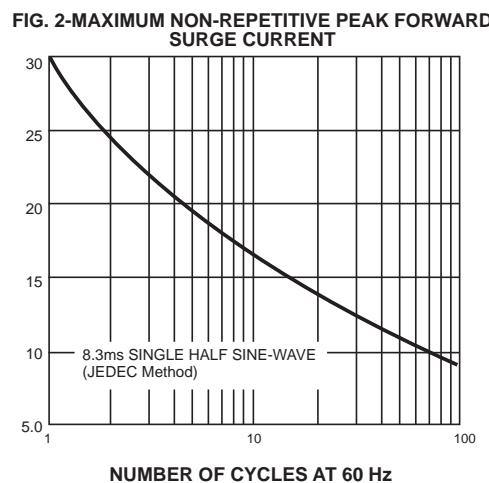


Ratings And Characteristic Curves

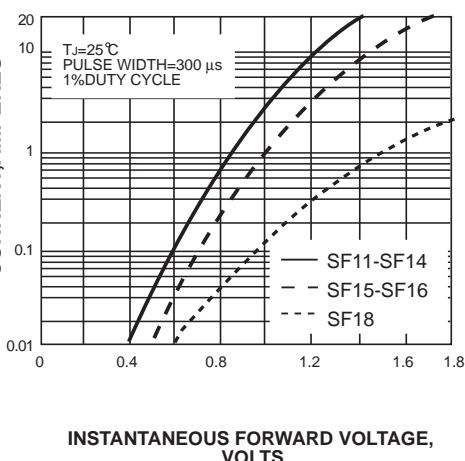
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES



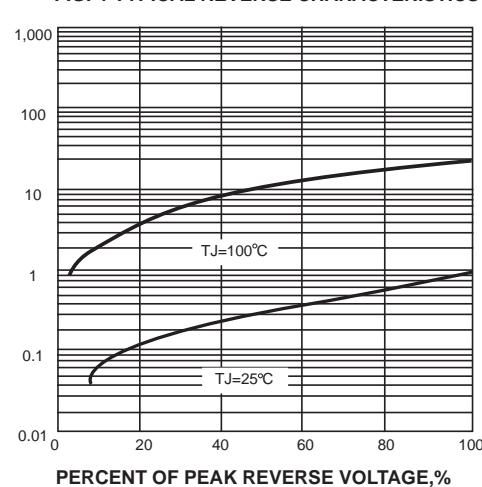
PEAK FORWARD SURGE CURRENT,
AMPERES



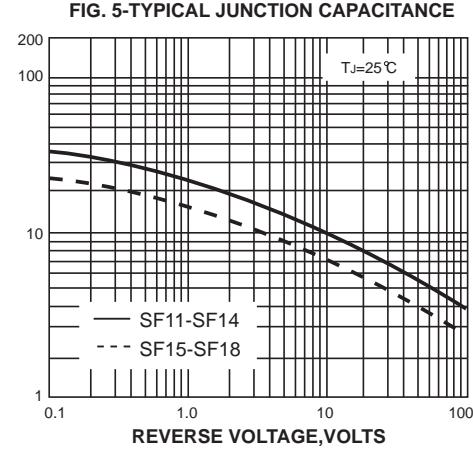
INSTANTANEOUS FORWARD
CURRENT, AMPERES



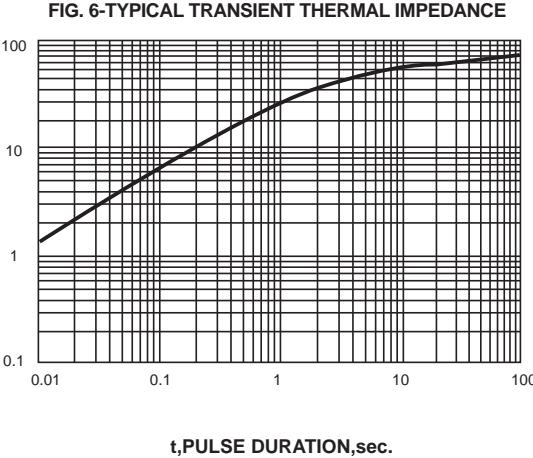
INSTANTANEOUS REVERSE CURRENT,
MICROAMPERES



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE,
°C/W



The curve above is for reference only.

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