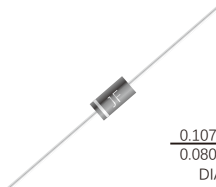


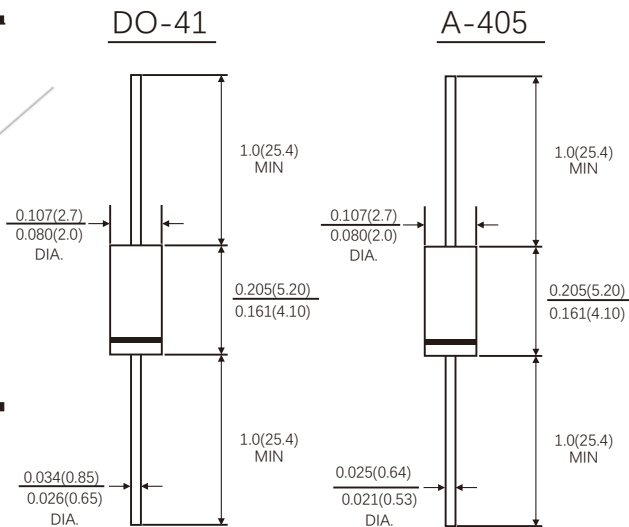
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2015/863/EU



MECHANICAL DATA

- Case: JEDEC DO-41/A-405 molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750,method 2026
- Polarity: color band denotes cathode end
- Mounting Position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load,derate by 20%.)

Parameters		Symbols	1N5817	1N5818	1N5819	Units
Maximum repetitive peak reverse voltage		V _{RRM}	20	30	40	Volts
Maximum RMS voltage		V _{RMS}	14	21	28	Volts
Maximum DC blocking voltage		V _{DC}	20	30	40	Volts
Maximum average forward rectified current		I(AV)	1.0			Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	25.0			Amps
Maximum instantaneous forward voltage at 1.0 A(note 1)		V _F	0.450	0.550	0.600	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T _J =25°C	I _R	0.1			mA
	T _J =100°C		5.0			
Typical junction capacitance(Note 3)		C _J	40			PF
Typical thermal resistance(Note 2)		R _{θJA} R _{θJL}	50.0 15.0			°C/W
Operating junction and storage temperature range		T _J T _{STG}	-55 to +150			°C

Notes: 1.Pulse test: 300μs pulse width,1% duty cycle
2.Thermal resistance (from junction to ambient)Vertical P.C.B. mounted , with 1.5X1.5"(38X38mm)copper pads
3.Measured at 1.0MHz and reverse voltage of 4.0 volts

RATINGS AND CHARACTERISTIC CURVES 1N5817 THRU 1N5819

FIG.1-FORWARD CURRENT DERATING CURVE

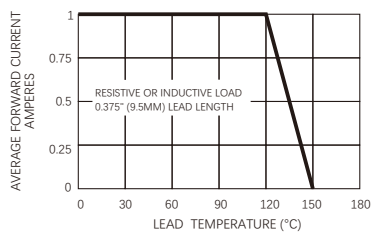


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

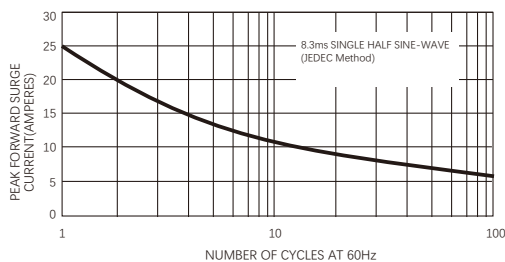


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

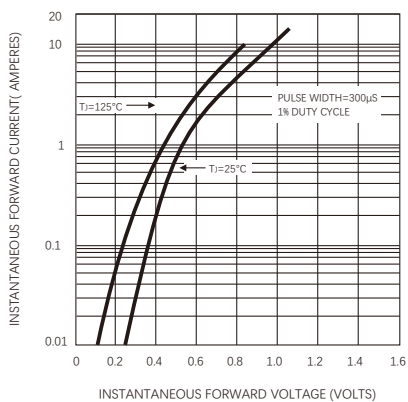


FIG.4-TYPICAL REVERSE CHARACTERISTICS

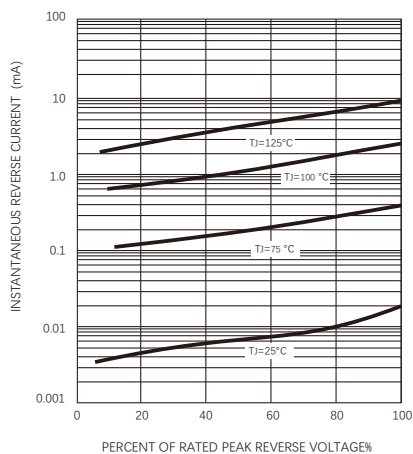
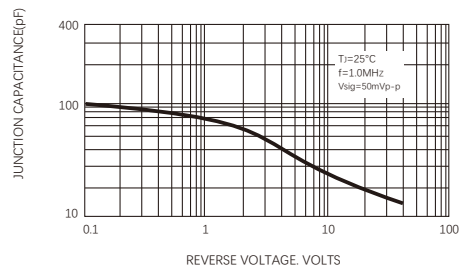


FIG.5-TYPICAL JUNCTION CAPACITANCE



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