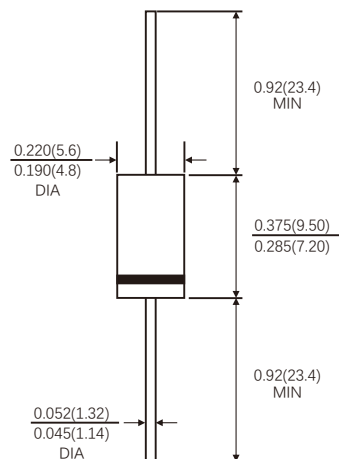


FEATURES

- 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
- Single rectifier construction
- 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, 0.25"(6.35mm)from case
- Component in accordance to RoHS 2015/863/EU



DO-201AD



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: JEDEC DO-201AD molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: As marked
- Mounting Position: Any

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	Value		Units
Maximum repetitive peak reverse voltage		V_{RRM}	150		Volts
Maximum RMS voltage		V_{RMS}	70		Volts
Maximum DC blocking voltage		V_{DC}	105		Volts
Maximum average forward rectified current (see Fig.1)		$I_{(AV)}$	10.0		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	180		Amps
Maximum instantaneous forward voltage at 10.0 A(Notes 1)		V_F	Typ.: 0.82	MAX: 0.90	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Notes 1)	$T_J=25^{\circ}C$	I_R	5.0		μA
	$T_J=125^{\circ}C$		3.0		mA
Typical thermal resistance (Notes 2)		$R_{\theta JA}$ $R_{\theta JL}$	40 10		$^{\circ}C/W$
Operating junction temperature range		T_J	-55 to+150		$^{\circ}C$
Storage temperature range		T_{STG}	-55 to+150		$^{\circ}C$

Notes: 1.Pulse test: 300us pulse width,1% duty cycle
2.Thermal resistance from junction to case

RATINGS AND CHARACTERISTIC CURVES SR10150

FIG.1-FORWARD CURRENT DERATING CURVE

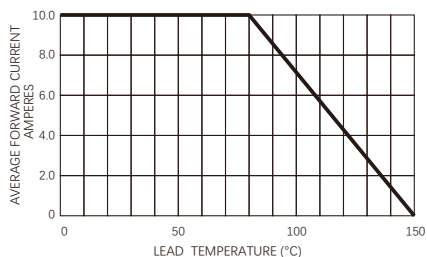


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

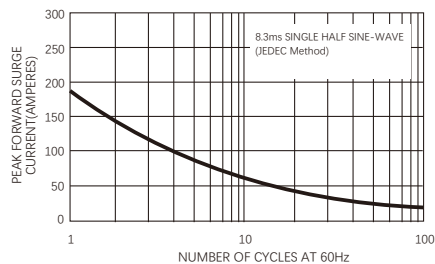


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

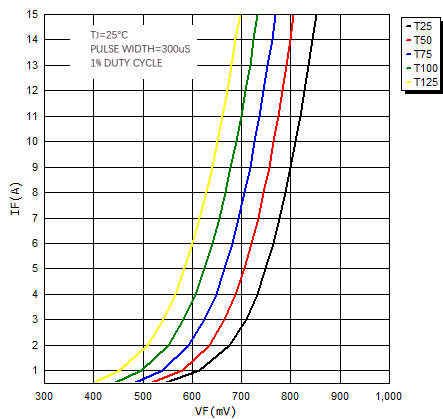
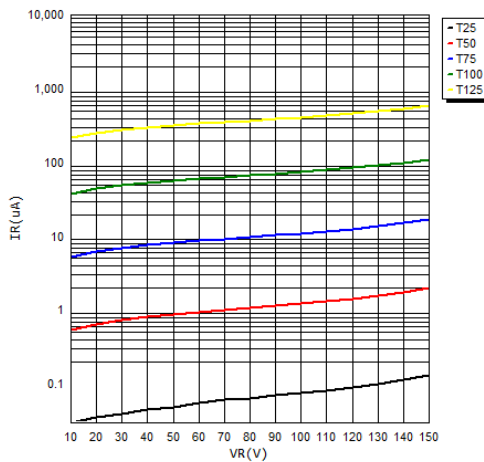


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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