

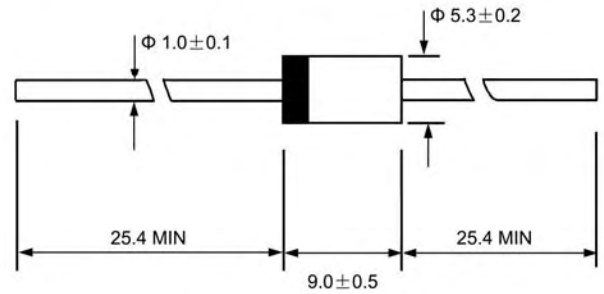


REVERSE VOLTAGE - 30 to 100Volts
FORWARD CURRENT - 10.0 Amperes

DO - 201AE

Features

- Metal of silicon rectifier , majority carrier conduction
- Guard ring for transient protection
- Low power loss,high efficiency
- High current capability,low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0
- For use in low voltage,high frequency inverters,free wheeling,and polarity protection applications



Dimensions in millimeters

Mechanical Data

- Case: JEDEC DO-201AE molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.032ounces , 0.9grams
- 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	10SQ 030S	10SQ 035S	10SQ 040S	10SQ 045S	10SQ 050S	10SQ 060S	10SQ 080S	10SQ 100S	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	30	35	40	45	50	60	80	100	V
Maximum RMS Voltage	V _{RMS}	21	24.5	28	31.5	35	42	56	70	V
Maximum DC Blocking Voltage	V _{DC}	30	35	40	45	50	60	80	100	V
Maximum Average Forward Rectified Current@T _c =95 °C	I _(AV)	10								A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load(JEDEC Method)	I _{FSM}	250								A
Peak Forward Voltage at 10A DC(Note1)	V _F	0.55			0.7		0.8			V
Maximum DC Reverse Current @T _j =25°C at Rated DC Blocking Voltage @T _j =100°C	I _R	0.5 50								mA
Operating Temperature Range	T _J	-55 to+150								°C
Storage Temperature Range	T _{STG}	-55 to+150								°C

NOTES:1.300us Pulse Width, 2%Duty Cycle.

RATING AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

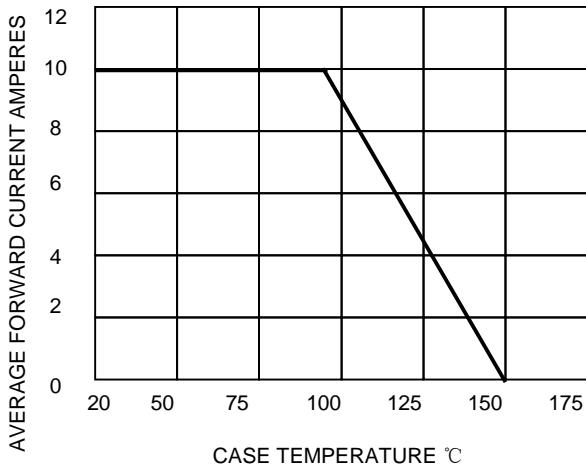


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

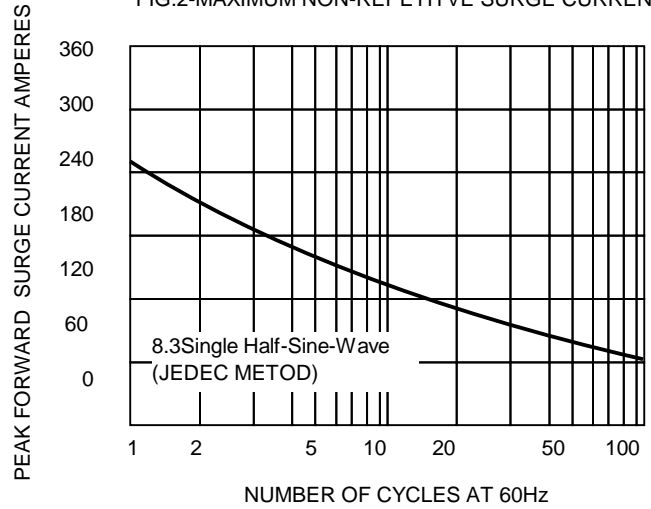


FIG.3-TYPICAL REVER CHARACTERISTICS

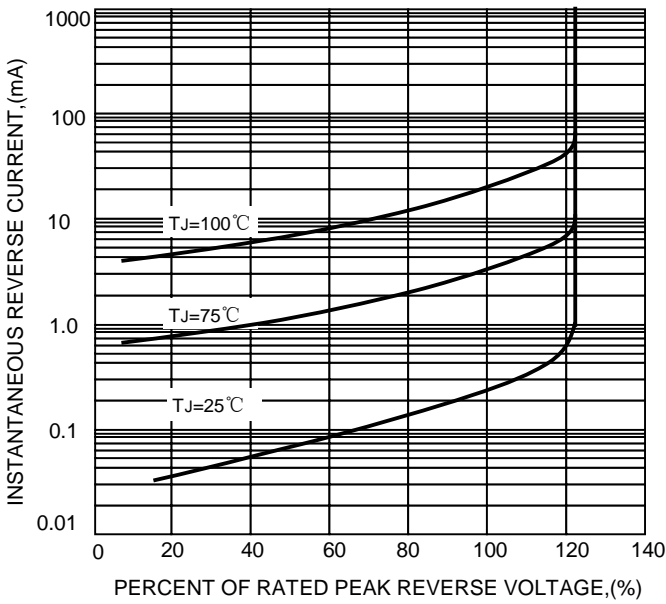


FIG.4-TYPICAL FORWARD CHARACTERISTICS

