

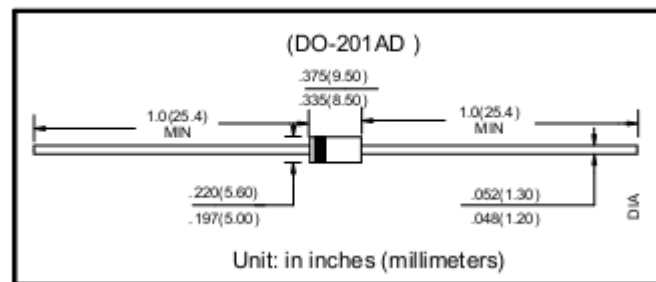
## Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- For use in low voltage , high frequency inverters, free wheeling, and polarity protection applications.
- High Forward Surge Capability

## Mechanical Data

- Case: DO-201AD
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Mounting Position : Any
- Weight: 1.122 grams (approximate)

### 外形尺寸和印记 Outline Dimensions and Mark



### MAXIMUM RATINGS( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	$V_{RRM}$	40	V
Maximum average forward rectified current	$I_{F(AV)}$	5	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	150	A
Typical thermal resistance	$R_{\theta JA}$ $R_{\theta JL}$	60 25	$^{\circ}\text{C/W}$
Operating junction temperature range	$T_J$	-55 to + 150	$^{\circ}\text{C}$
Storage temperature range	$T_{STG}$	-55 to + 150	$^{\circ}\text{C}$

### ELECTRICAL CHARACTERISTICS( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage	$V_{BR}$	$I_R=1\text{mA}$	40	-	-	V
Instantaneous forward voltage	$V_F$	$I_F=1\text{A}$	-	0.35	-	V
		$I_F=3\text{A}$	-	0.40	-	V
		$I_F=5\text{A}$	-	0.44	0.49	V
Reverse current	$I_R$	$V_R=32\text{V}$	-	30	-	$\mu\text{A}$
		$V_R=40\text{V}$	-	-	200	$\mu\text{A}$
		$T_J=25^{\circ}\text{C}$ $T_J=125^{\circ}\text{C}$	-	27	-	$\text{mA}$

#### Notes :

1. Thermal resistance from junction to ambient 10 mm lead length mounted on PCB with min. pad layout.
2. Thermal resistance from junction to lead at 10 mm lead length with both leads attached to infinite heatsinks.

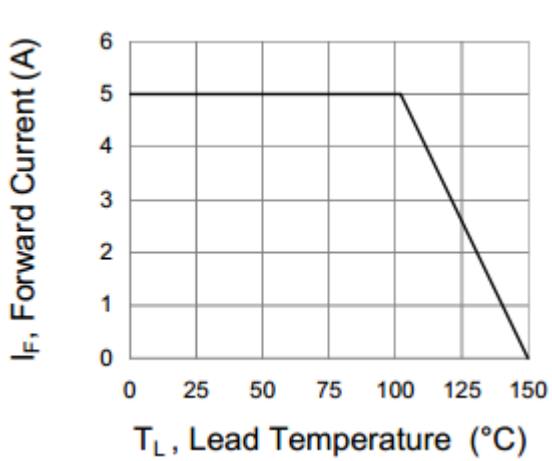


Fig.1 Forward Current Derating Curve

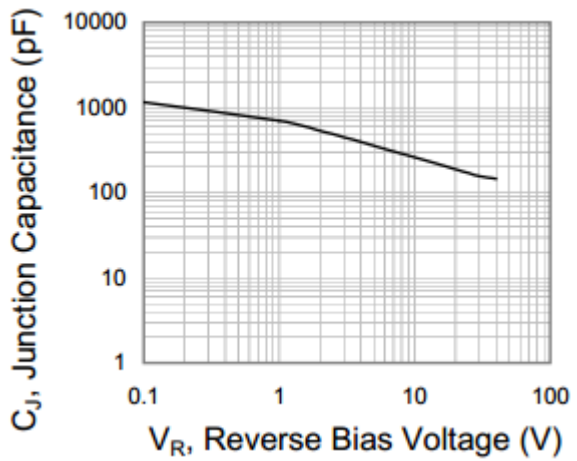


Fig.2 Typical Junction Capacitance

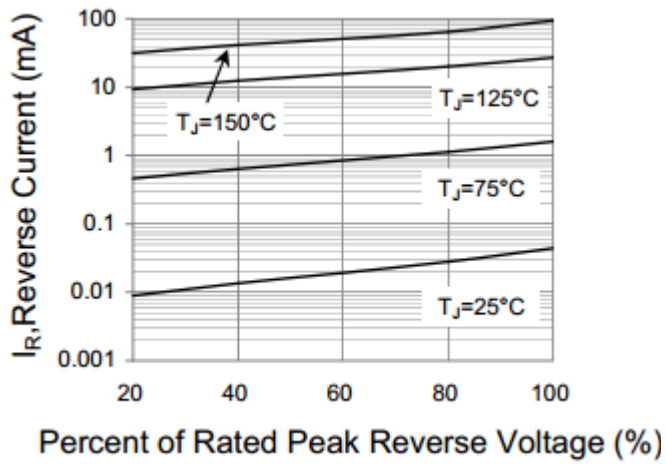


Fig.3 Typical Reverse Characteristics

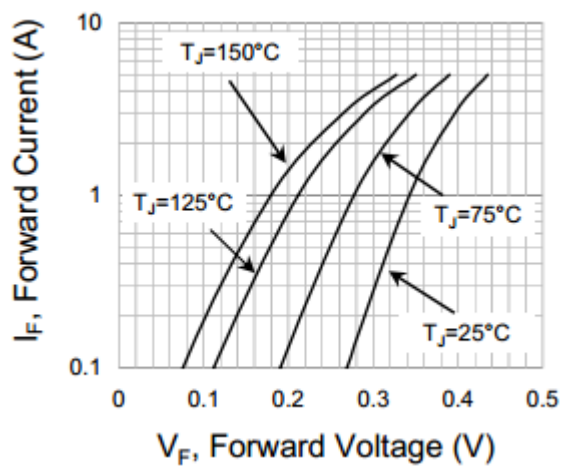


Fig.4 Typical Forward Characteristics