

# UF460

## Ultra Fast Power Rectifier

### Features

- Ultrafast switching Low reverse recovery current

### Reduces

- Switching & conduction losses Low thermal resistance
- Meets MSL level 1, per J-STD-020
- Solder dip 260 °C max. 10 s, per JESD 22-A111
- RoHS compliant package

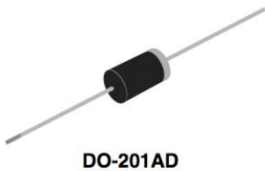
### Mechanical Data

- Case: DO-201AD,
- molded epoxy body Epoxy meets UL 94V-0

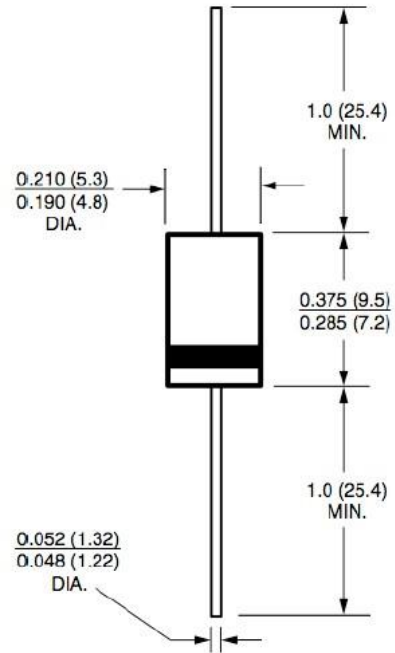
flammability rating

### Packing & Order Information

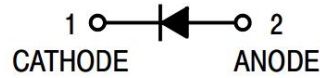
1,250/Ammo Tape



**RoHS**  
COMPLIANT



### Graphic symbol



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

### Maximum Ratings (Tc=25°C unless otherwise noted)

Parameter	Symbol	UF460	Unit
Maximum repetitive peak reverse voltage	VRRM	600	V
Working peak reverse Voltage	VRWM	600	V
Maximum DC blocking Voltage	VDC	600	V
Maximum average forward rectified current Total device	IF(AV)	4	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	125	A
Operating junction temperature range	TJ	-55 to +150	°C
Storage temperature range	TSTG	-55 to +175	°C

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#### Electrical characteristics (Tc=25°C unless otherwise noted)

Parameter	Symbol	Value		Unit
		Typical	Max	
Instantaneous forward voltage at IF=4A, Tj=25°C at IF=4A, Tj=125°C	VF	1.1 0.8	1.28	V
Maximum reverse current per leg Tj=25°C	IR	10		u'A
at working peak reverse voltage Tj=125°C		0.1		m'A
Maximum Reverse Recovery Time (IF = 1.0 Amp, di/dt = 50 Amp/ms)	Trr	75		ns
(IF = 0.5 Amp, iR = 1.0 Amp, IREC = 0.25 Amp)		50		ns

#### Thermal characteristics (Tc=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Typical thermal resistance	RθJA	75	°C/W
	Rthjl	20	

**Notes:**

(1) L = 10mm

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