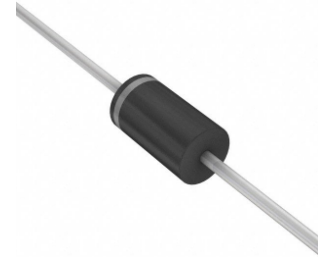


# Plastic Fast Recover High Voltage Rectifier

## FEATURES

- High Peak Reverse Voltage
- High reliability
- High speed switching
- High temperature soldering guaranteed: 270°C/10 seconds
- RoHS compliant

**DO-206**

**RoHS  
COMPLIANT**
**HALOGEN  
FREE  
AVAILABLE**

## MECHANICAL DATA

- Polarity: color band denotes cathode end
- Case material: plastic package has underwriters laboratory flammability classification 94V-0

## TYPICAL APPLICATION

High voltage rectification for office equipment and other applications.

## MAXIMUM RATINGS

T<sub>A</sub>=25°C unless otherwise noted

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	6	kV
Average Forward Current (50HZ half-sine wave, Resistance load T <sub>A</sub> =25°C)	I <sub>F(AV)</sub>	5	mA
Peak Forward Surge Current (50HZ half-sine wave, 1/2 cycle)	I <sub>FSM</sub>	0.5	A
Operating Junction Temperature Range	T <sub>J</sub>	-40 to +120	°C
Storage Temperature Range	T <sub>STG</sub>	-40 to +120	°C

## ELECTRICAL CHARACTERISTICS

T<sub>A</sub>=25°C unless otherwise noted

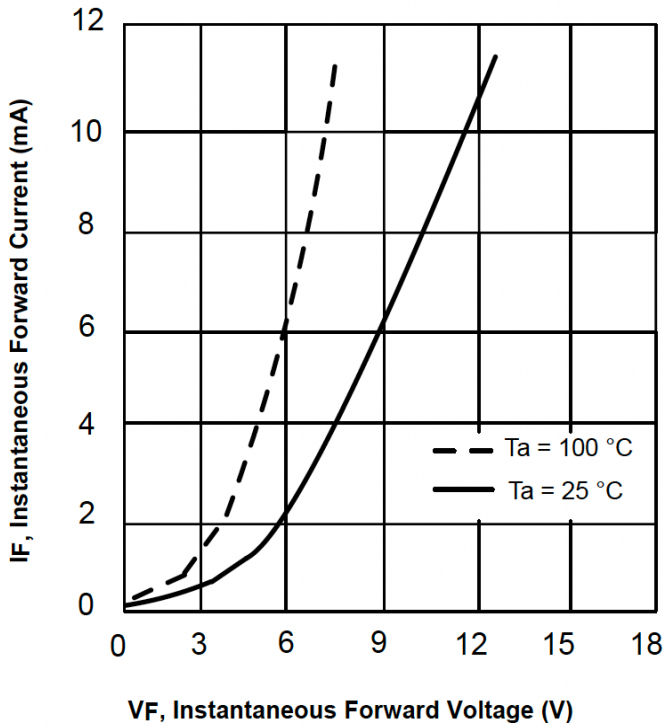
Parameter	Test Conditions	Symbol	Value	Unit
Forward Voltage@I <sub>F</sub> =10mA	T <sub>A</sub> =25°C	V <sub>F</sub>	20	V
Reverse Current @ V <sub>RRM</sub>	T <sub>A</sub> =25°C	I <sub>R</sub>	2	uA
	T <sub>A</sub> =100°C		5	
Reverse Recovery Time @I <sub>F</sub> =2mA, I <sub>rp</sub> =4mA, 1mA recovery		T <sub>rr</sub>	100	nS

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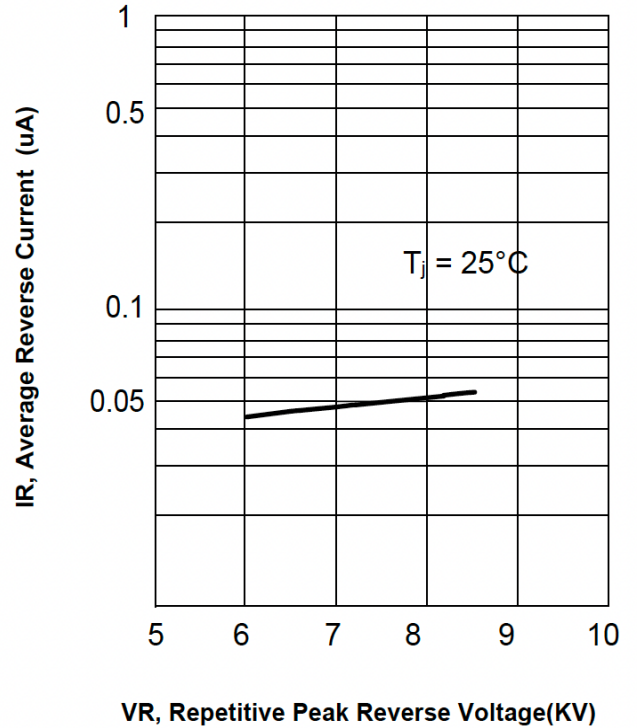
### RATINGS AND CHARACTERISTIC CURVES

$T_A=25^\circ\text{C}$  unless otherwise noted

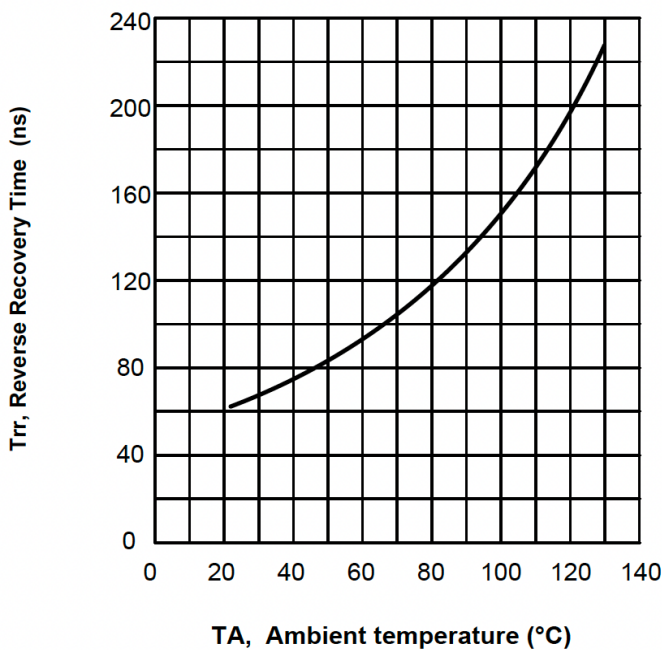
**TYPICAL FORWARD CHARACTERISTIC**



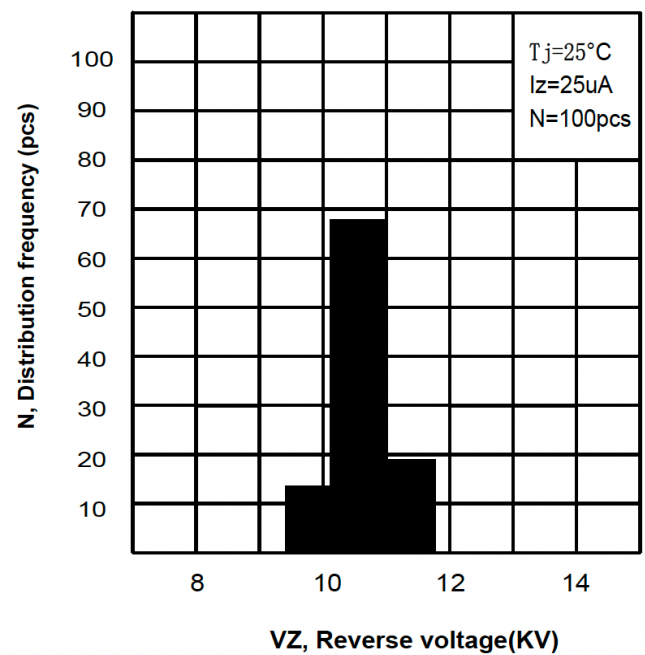
**REVERSE CHARACTERISTIC**



**REVERSE RECOVERY TIME CHARACTERISTIC**

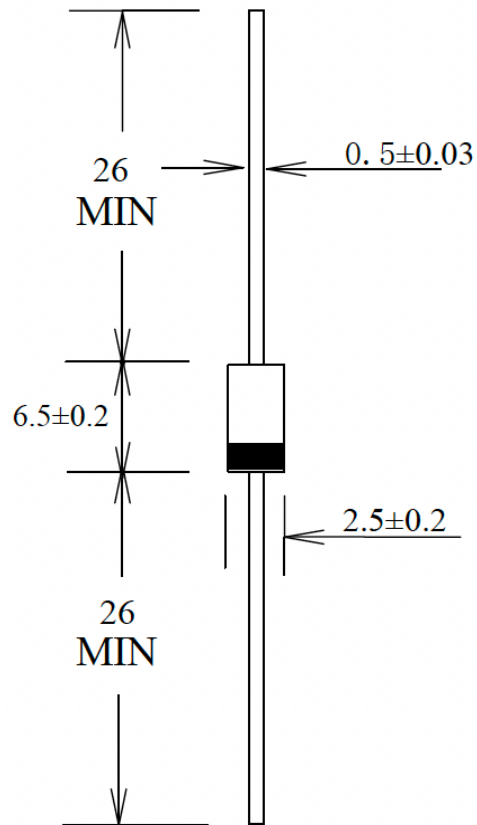


**REVERSE VOLTAGE CHARACTERISTIC DISTRIBUTION**



# Plastic Fast Recover High Voltage Rectifier

## PACKAGE OUTLINE DIMENSIONS



Unit: mm