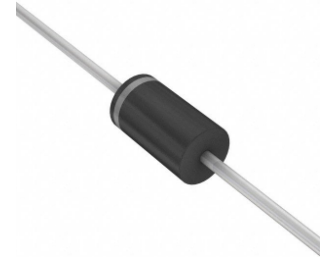


## Plastic Fast Recover High Voltage Rectifier

### FEATURES

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

DO-205



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

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

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	6	kV
Average Forward Current (50HZ half-sine wave, Resistance load $T_A=25^\circ\text{C}$ )	$I_{F(AV)}$	5	mA
Peak Forward Surge Current (50HZ half-sine wave, 1/2 cycle)	$I_{FSM}$	0.5	A
Operating Junction Temperature Range	$T_J$	-40 to +120	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-40 to +120	$^\circ\text{C}$

### ELECTRICAL CHARACTERISTICS

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

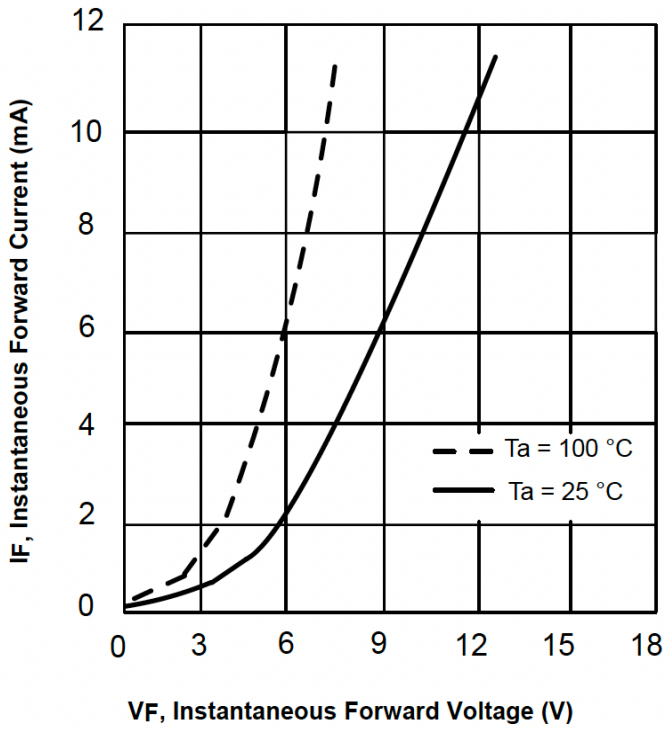
Parameter	Test Conditions	Symbol	Value	Unit
Forward Voltage@ $I_F=10\text{mA}$	$T_A=25^\circ\text{C}$	$V_F$	20	V
Reverse Current @ $V_{RRM}$	$T_A=25^\circ\text{C}$	$I_R$	2	uA
	$T_A=100^\circ\text{C}$		5	
Reverse Recovery Time @ $I_F=2\text{mA}$ , $I_{rp}=4\text{mA}$ , 1mA recovery		$T_{rr}$	100	nS

**Plastic Fast Recover High Voltage Rectifier**

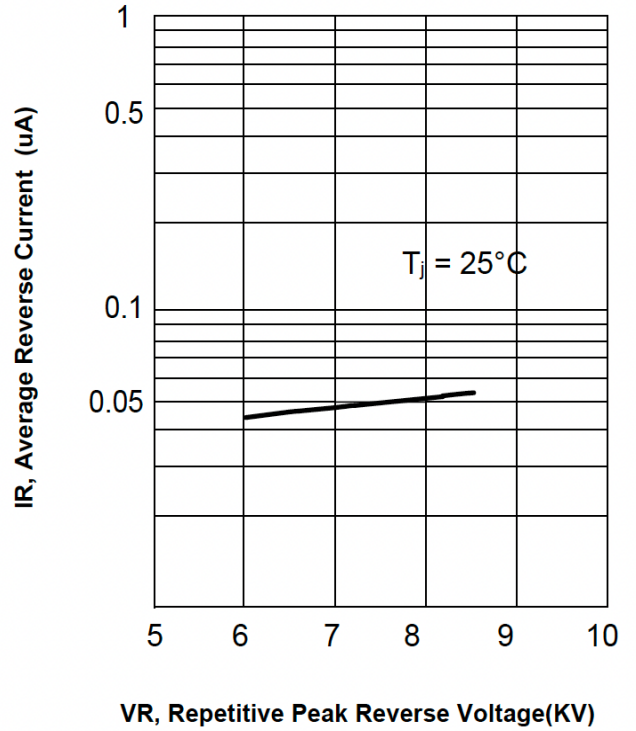
**RATINGS AND CHARACTERISTIC CURVES**

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

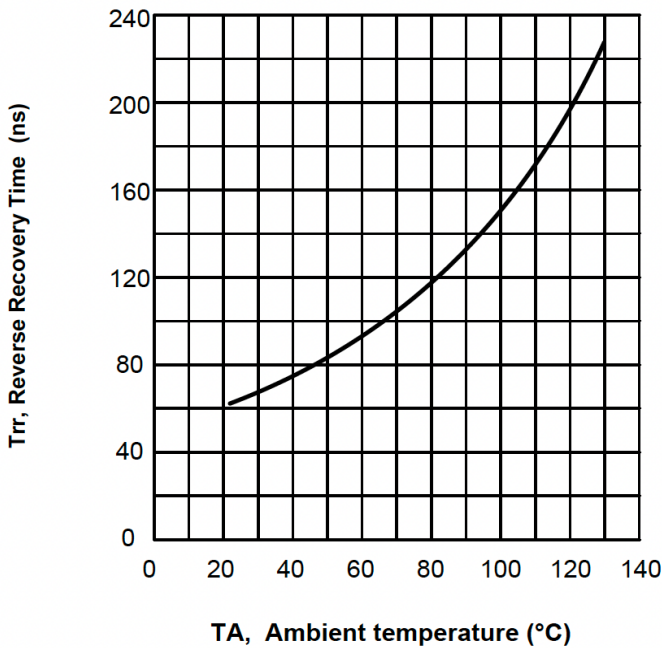
**TYPICAL FORWARD CHARACTERISTIC**



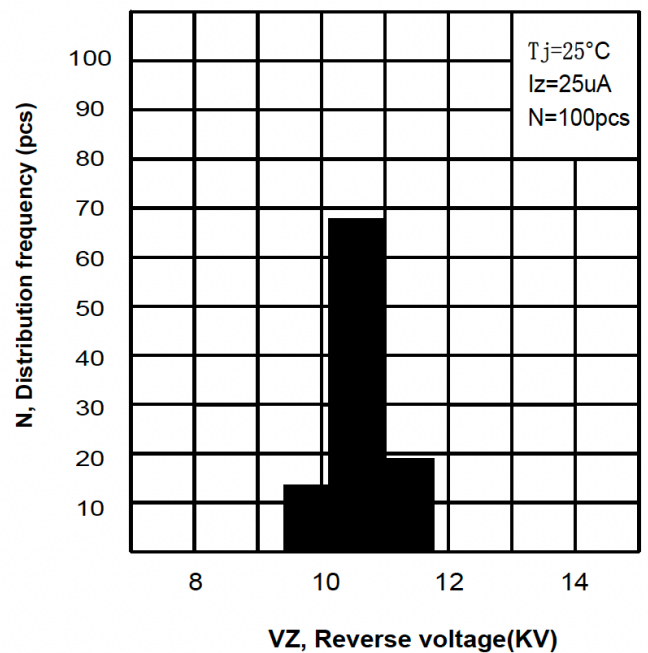
**REVERSE CHARACTERISTIC**



**REVERSE RECOVERY TIME CHARACTERISTIC**

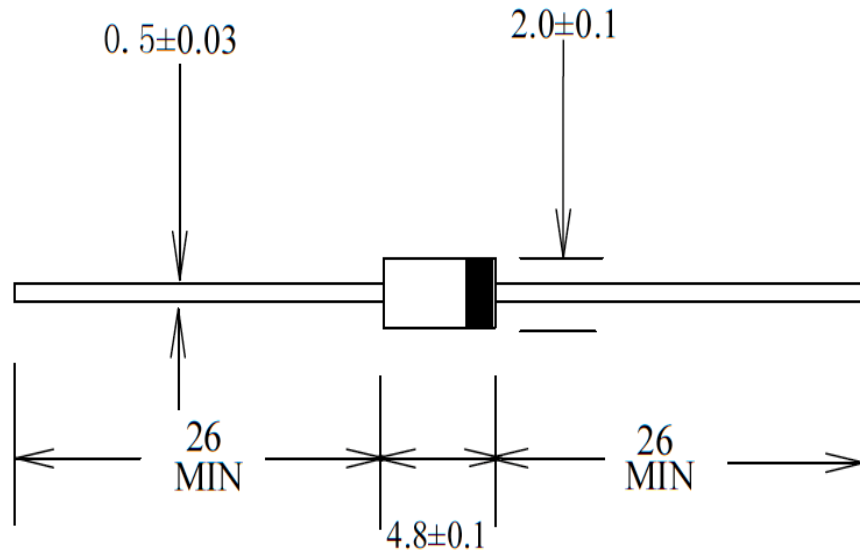


**REVERSE VOLTAGE CHARACTERISTIC DISTRIBUTION**



# Plastic Fast Recover High Voltage Rectifier

## PACKAGE OUTLINE DIMENSIONS



Unit: mm