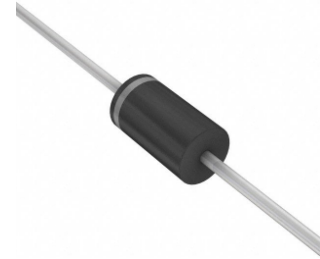


Plastic Fast Recover High Voltage Rectifier

FEATURES

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

DO-210

**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}	12	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

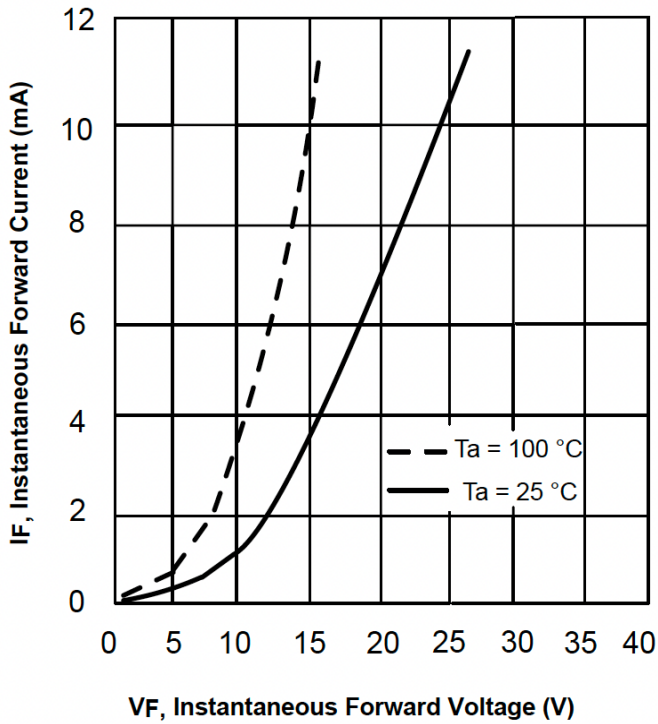
Parameter	Test Conditions	Symbol	Value	Unit
Forward Voltage@ $I_F=10\text{mA}$	$T_A=25^\circ\text{C}$	V_F	37.5	V
Reverse Current @ V_{RRM}	$T_A=25^\circ\text{C}$	I_R	2	uA
	$T_A=100^\circ\text{C}$		5	
Reverse Recovery Time @ $I_F=2\text{mA}, I_{rp}=4\text{mA}, 75\%$ recovery		T_{rr}	100	nS

Plastic Fast Recover High Voltage Rectifier

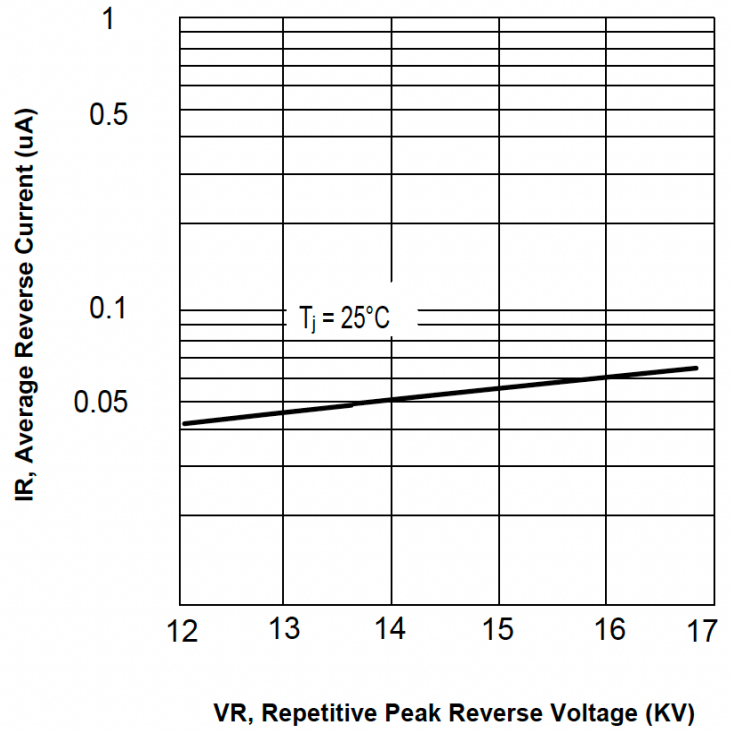
RATINGS AND CHARACTERISTIC CURVES

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

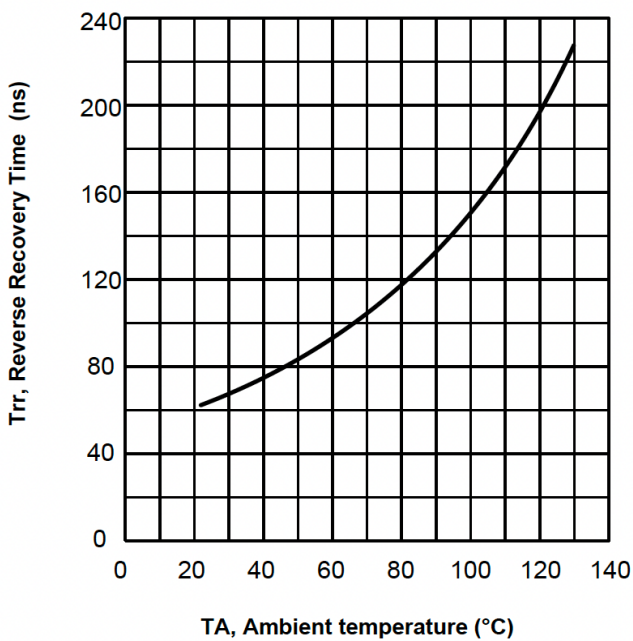
TYPICAL FORWARD CHARACTERISTIC



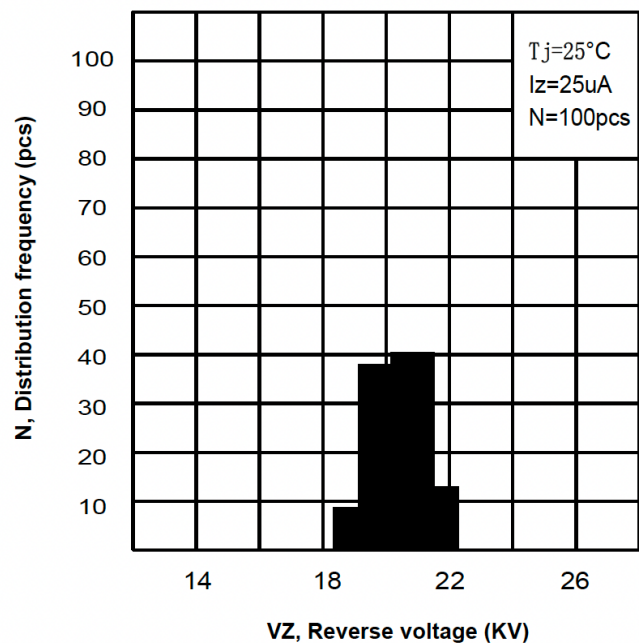
REVERSE CHARACTERISTIC



REVERSE RECOVERY TIME CHARACTERISTIC

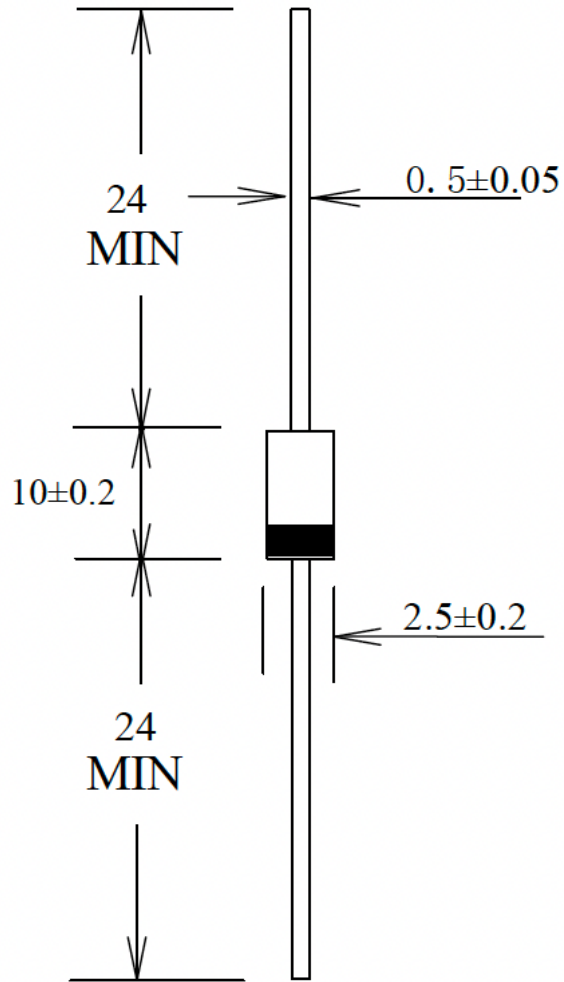


REVERSE VOLTAGE CHARACTERISTIC DISTRIBUTION



Plastic Fast Recover High Voltage Rectifier

PACKAGE OUTLINE DIMENSIONS



Unit: mm