



BY251-BY255 General Purpose Rectifier

Feature

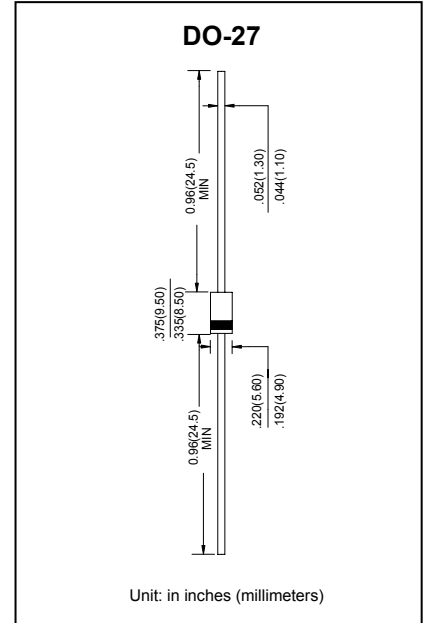
- I_o 3A
- V_{RRM} 200V-1300V
- Low reverse leakage
- High surge current capability

Application

- Rectifier

Application

- BY25X
X : From 1 To 5



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

Parameter	Symbol	BY					Unit
		251	252	253	254	255	
Repetitive Peak Reverse Voltage	V_{RRM}	200	400	600	800	1300	V
Maximum RMS Voltage	V_{RMS}	140	280	420	560	910	V
Average Forward Current 60Hz Half-sine wave, Resistance load, $T_a=50^\circ\text{C}$	$I_{F(AV)}$	3					A
Non-repetitive Peak Forward Surge Current 60Hz Half-sine wave, 1 cycle, $T_a=25^\circ\text{C}$	I_{FSM}	100					A
Junction Temperature	T_J	-55 ~ +125					$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150					$^\circ\text{C}$

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

Parameter	Symbol	Test Condition	Max	Unit	
Peak Forward voltage	V_{FM}	$I_{FM}=3A$	1.1	V	
Peak Reverse Current	I_{RRM1}	$V_{RM}=V_{RRM}$	$T_a=25^\circ\text{C}$	5	μA
	I_{RRM2}		$T_a=125^\circ\text{C}$	50	μA
Thermal Resistance (Typical)	$R_{\theta J-A}$	Between junction and ambient	20	$^\circ\text{C}/\text{W}$	
	$R_{\theta J-L}$	Between junction and lead	10	$^\circ\text{C}/\text{W}$	

Typical Characteristics

