

R1200-R1800 General Purpose Rectifier
Feature

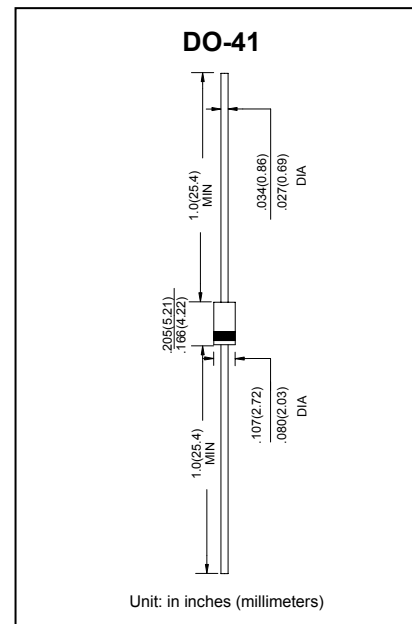
- I_o 0.5A
- V_{RRM} 1200V-1800V
- Low reverse leakage
- High surge current capability

Application

- Rectifier

Marking

- RXX00
XX : From 12 To 18


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

Parameter	Symbol	R1200	R1500	R1800	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	1200	1500	1800	V
Maximum RMS Voltage	V_{RMS}	840	1050	1260	V
Average Forward Current 60Hz Half-sine wave, Resistance load, $T_a=50^\circ\text{C}$	$I_{F(AV)}$	0.5			A
Non-repetitive Peak Forward Surge Current 60Hz Half-sine wave, 1 cycle, $T_a=25^\circ\text{C}$	I_{FSM}	30			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}	$I_{FM}=0.5A$	2	V
Peak Reverse Current	I_{RRM1}	$V_{RM}=V_{RRM}$	5	μA
	I_{RRM2}		50	μA
Thermal Resistance (Typical)	$R_{\theta J-A}$	Between junction and ambient	55	$^\circ\text{C/W}$
	$R_{\theta J-L}$	Between junction and lead	25	$^\circ\text{C/W}$

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

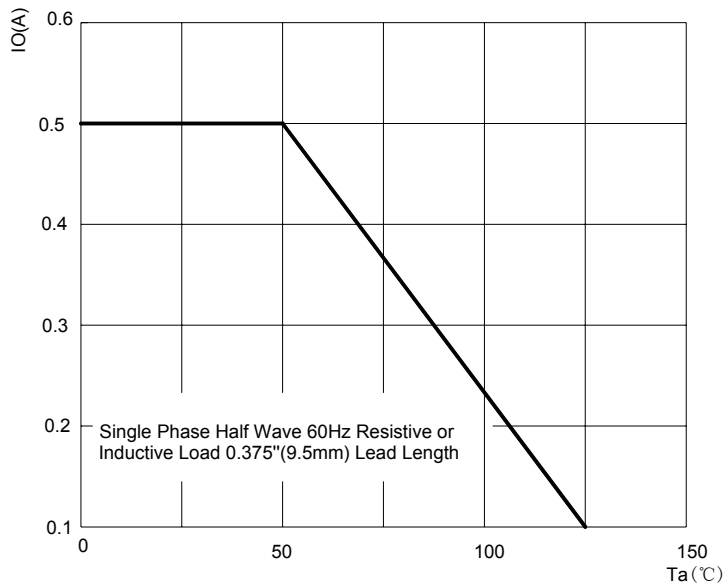


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

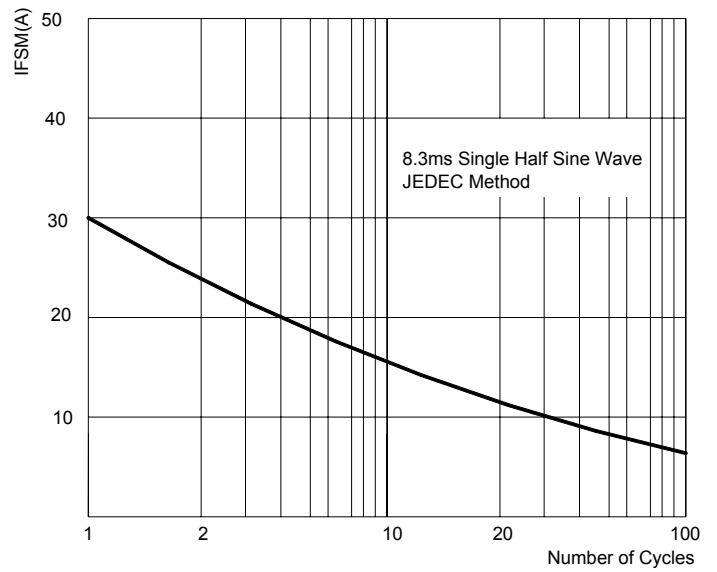


FIG.3: TYPICAL FORWARD CHARACTERISTICS

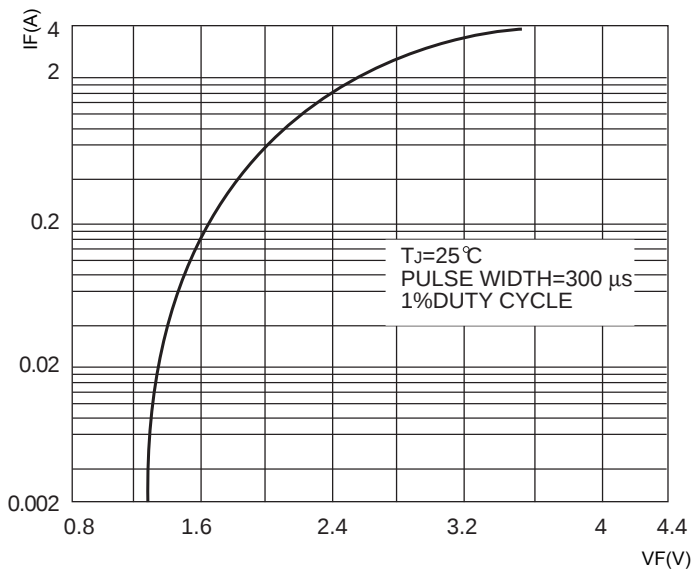


FIG.4: TYPICAL REVERSE CHARACTERISTICS

