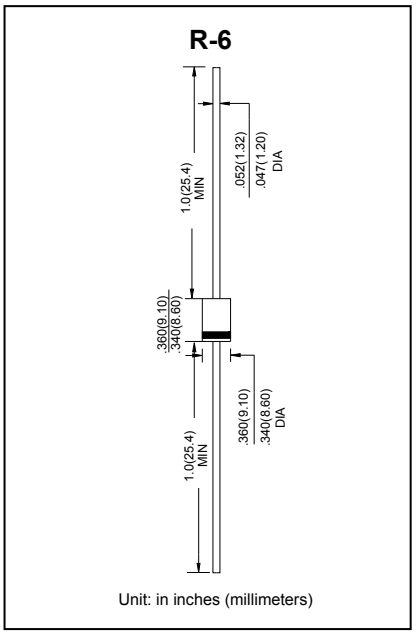
8A05-8A10

50~1000V-8A General Purpose Rectifier

8A05-8A10 General Purpose Rectifier



Feature

- I_O 8A
- V_{RRM} 50V-1000V
- Low reverse leakage
- High surge current capability

Application

- Rectifier

Application

- 8AX
  X : From 05 To 10

ABSOLUTE MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Parameter	Symbol	8A							Unit
		05	1	2	4	6	8	10	
Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average Forward Current 60Hz Half-sine wave, Resistance load, T_a=50℃	$I_{F(AV)}$	8							A
Non-repetitive Peak Forward Surge Current 60Hz Half-sine wave ,1 cycle ,T_a =25℃	I_{FSM}	400							A
Junction Temperature	T_J	-55 ~ +125							℃
Storage Temperature	T_{STG}	-55 ~ +150							℃

ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise noted)

Parameter	Symbol	Test Condition		Max	Unit
Peak Forward voltage	V_{FM}	I_{FM}=8A		1	V
Peak Reverse Current	I_{RRM1}	V_{RM}=V_{RRM}	T_a=25℃	5	uA
	I_{RRM2}		T_a=125℃	50	uA
Thermal Resistance (Typical)	$R_{\theta J-A}$	Between junction and ambient		20	℃/W
	$R_{\theta J-L}$	Between junction and lead		4	℃/W

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

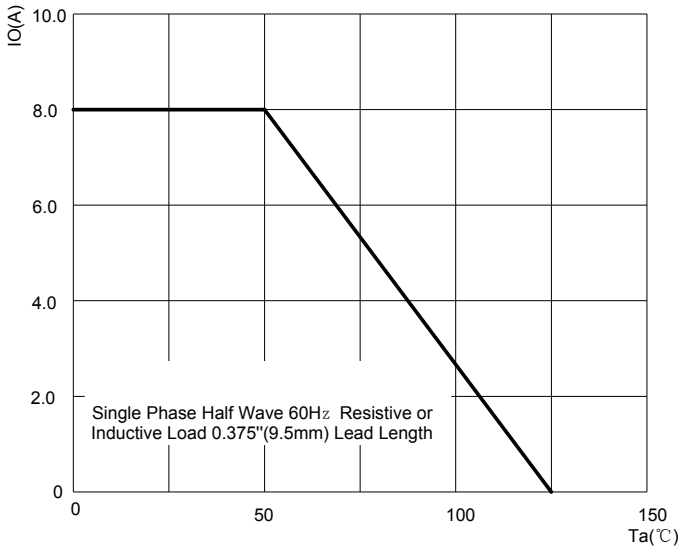


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

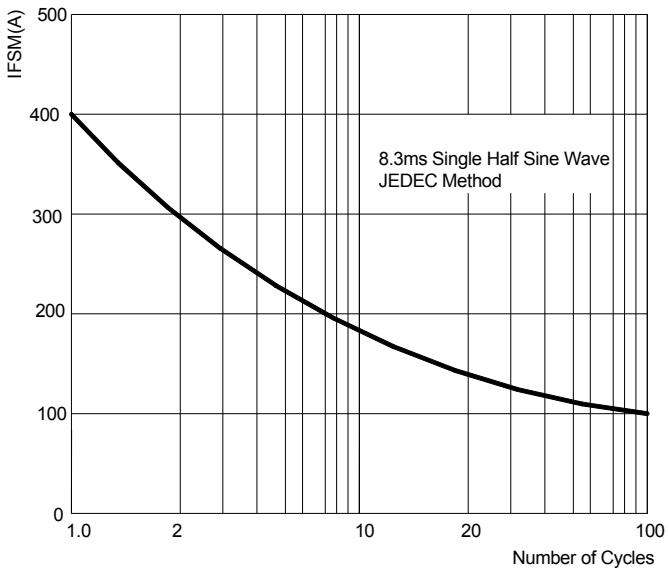


FIG.3: TYPICAL FORWARD CHARACTERISTICS

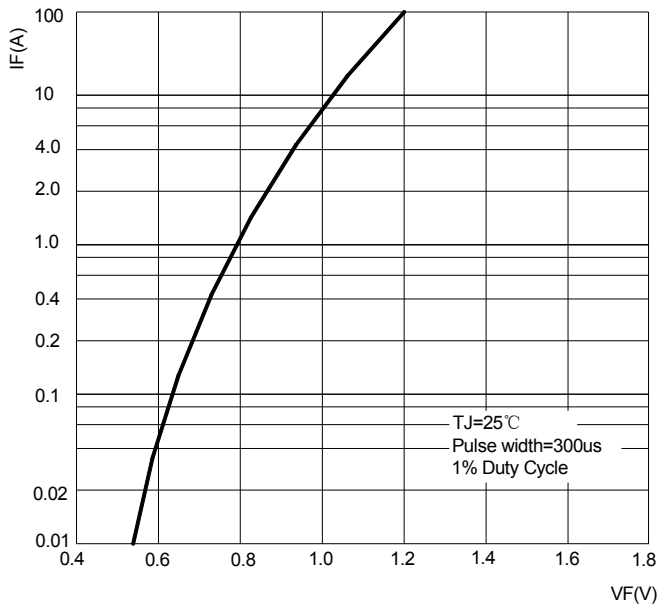


FIG.4: TYPICAL REVERSE CHARACTERISTICS