

Features

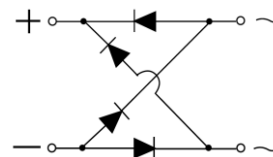
- $I_{F(AV)}$ 2A
- V_{RRM} 200V-1000V
- High surge current capability
- Glass passivated chip

Applications

- General purpose 1 phase Bridge rectifier applications



ABS top view



Schematic diagram



Halogen-Free

Limiting Values (Absolute Maximum Rating)

Symbol	Item	Conditions		ABS					Unit
				202	204	206	208	210	
V _{RRM}	Repetitive Peak Reverse Voltage			200	400	600	800	1000	V
V _{RMS}	Maximum RMS Voltage			140	280	420	560	700	V
I _o	Average Rectified Output Current	60Hz sine wave,	On alumina substrate	2.0					A
		R-load, T _a =40℃							
I _{FSM}	Surge(Non-repetitive)Forward Current	8.3ms sine wave,1 cycle, T _j =25℃		60					A
		1.0ms sine wave,1 cycle, T _j =25℃		120					
I ² t	Current Squared Time	1ms≤t<8.3ms T _j =25℃ , Rating of per diode		14.94					A ² S
T _J , T _{STG}	Operating and Storage Temperature Range			-55~ +150					℃

Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Symbol	Item	Condition	Max	Unit
V_{FM}	Peak Forward Voltage	$I_{FM}=2.0\text{A}$, Pulse measurement, Rating of per diode	1.1	V
I_{RRM}	Peak Reverse Current	$V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode	5	μA
$R_{\theta J-A}$	Thermal Resistance	Between junction and ambient, On alumina substrate	62.5	$^\circ\text{C/W}$
$R_{\theta J-L}$		Between junction and lead	25	
$R_{\theta J-C}$		Between junction and case	25	

Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
ABS202	ABS	ABS202	5,000	10,000	100,000	13"
ABS204		ABS204	5,000	10,000	100,000	13"
ABS206		ABS206	5,000	10,000	100,000	13"
ABS208		ABS208	5,000	10,000	100,000	13"
ABS210		ABS210	5,000	10,000	100,000	13"

Typical Operating Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

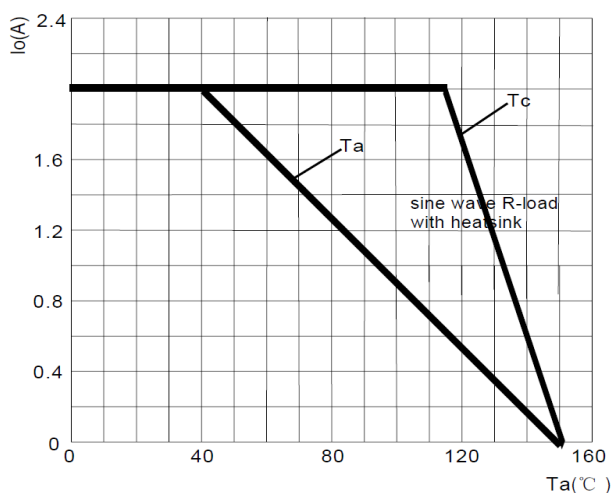


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

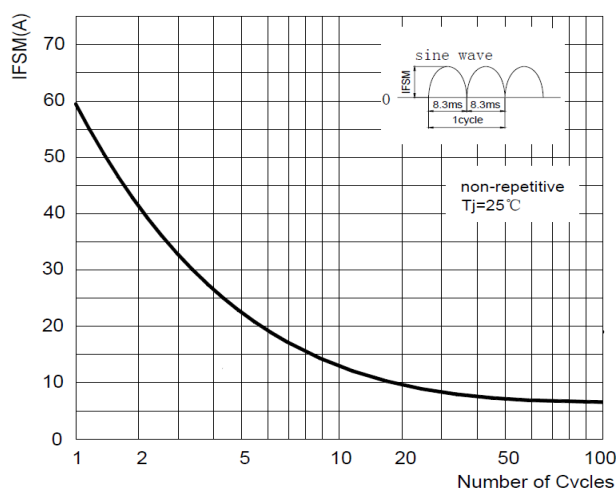


FIG.3: TYPICAL FORWARD CHARACTERISTICS

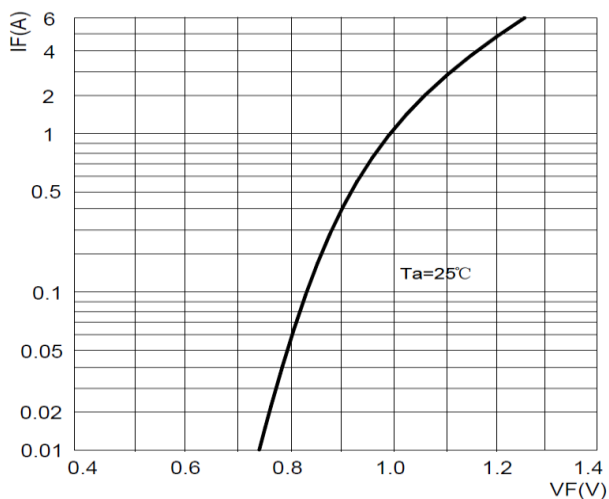
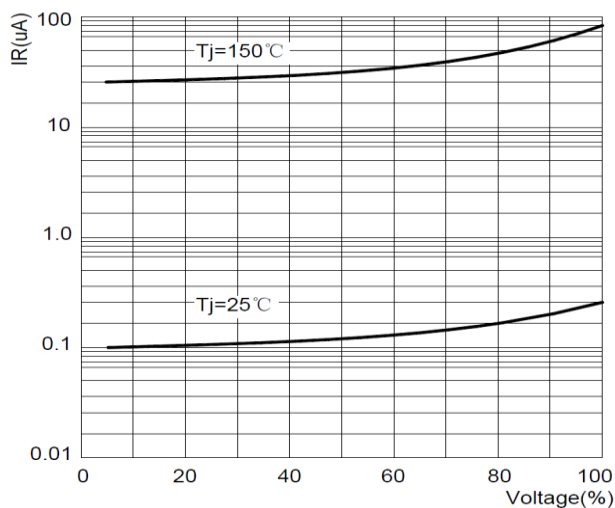


FIG.4: TYPICAL REVERSE CHARACTERISTICS



ABS Package information

Dimensions in inches and (millimeters)

