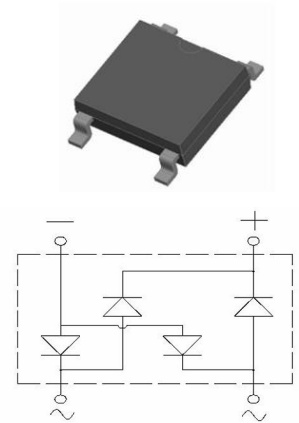
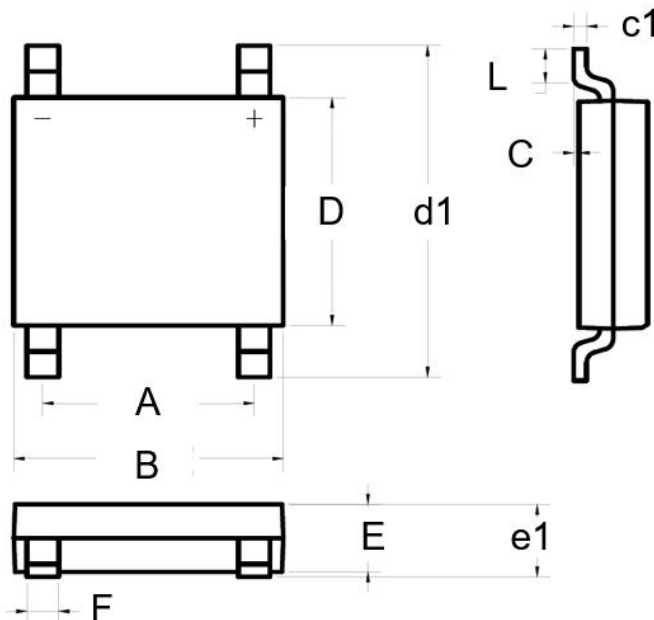


Features

- ◆ High efficiency
- ◆ Ideal for automated placement
- ◆ High surge current capability
- ◆ Meets MSL level 1, per J-STD-020, LF maximum peak of 260°C
- ◆ Package Material: ABS
- ◆ Package Material: Green molding compound, UL flammability classification 94V-0



Dimensions (ABS)



Symbol	Dimension	
	Millimeters	
	Min.	Max.
A	3.80	4.20
B	4.90	5.30
C	0.02	0.15
c1	0.15	0.25
D	4.30	4.60
d1	6.30	6.60
E	1.25	1.45
e1	-	1.50
F	0.55	0.75
L	0.3	0.8

Maximum Ratings ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	ABS22	ABS24	ABS26	ABS28	ABS210	Unit
Repetitive peak reverse voltage	V _{RRM}	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	200	400	600	800	1000	V
Maximum Average Forward Current	I _{F(AV)}	2.0					A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50					A
Current squared time @1ms≤t≤8.3≤ms T _A =25℃， Rating of per diode	I²t	10.4					A²s
Maximum instantaneous forward voltage @2A	V _F	1.1					V
Maximum DC reverse current at rated DC blocking voltage per diode @ V _{RM} =V _{RRM}	I _R @25℃	10					μA
	I _R @100℃	500					
Thermal resistance	Rθ _{J-A}	62.5					℃/W
Junction temperature	T _j	-55~+125					℃
Storage temperature	T _{stg}	-55 ~+150					℃

Ratings and Characteristic Curves (TA=25°C unless otherwise noted)

Figure 1. Forward Current Derating Curve

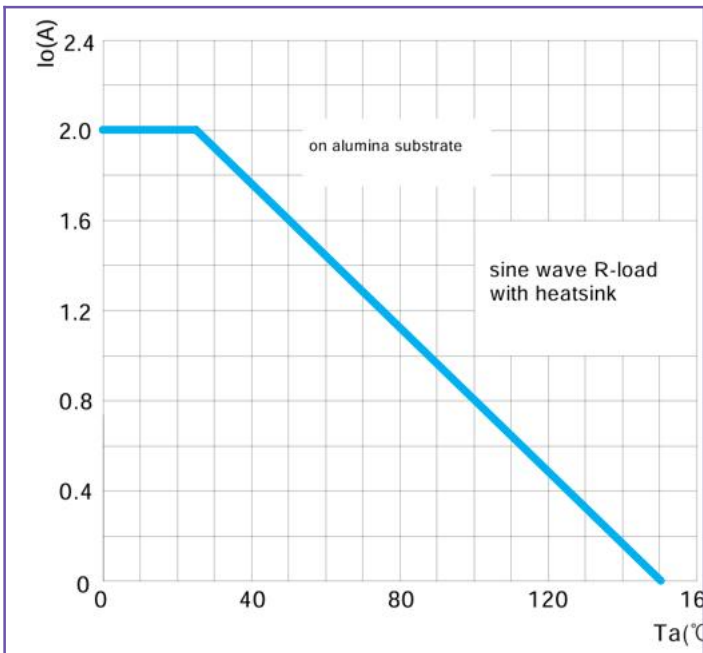


Figure 2. Forward Surge Current Capability

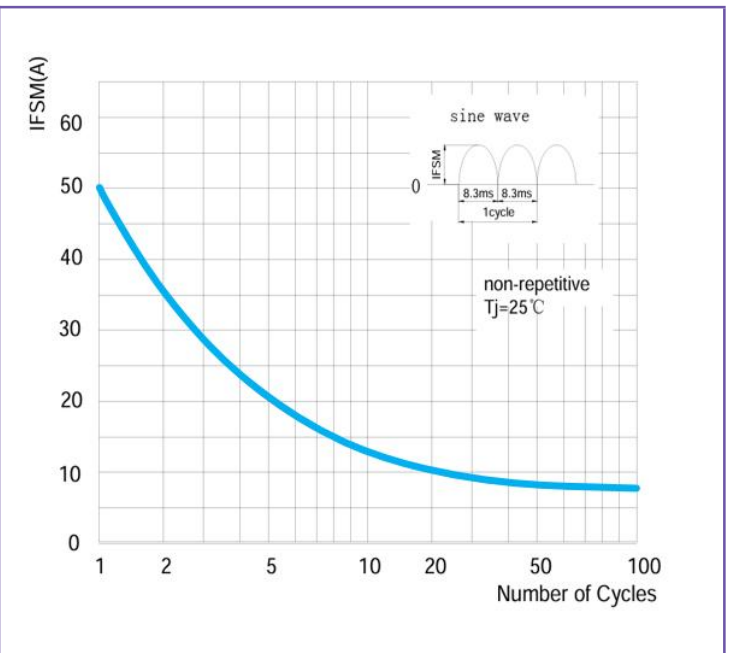


Figure 3. Typical Forward Characteristics

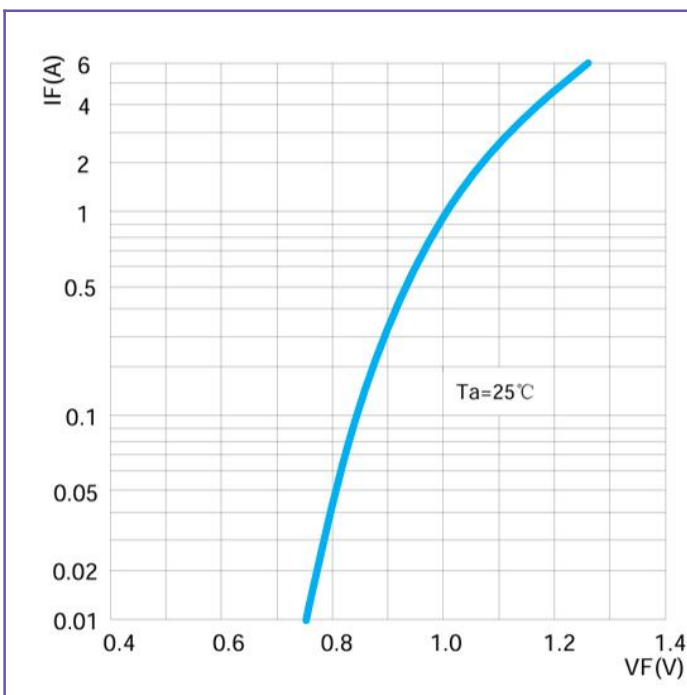
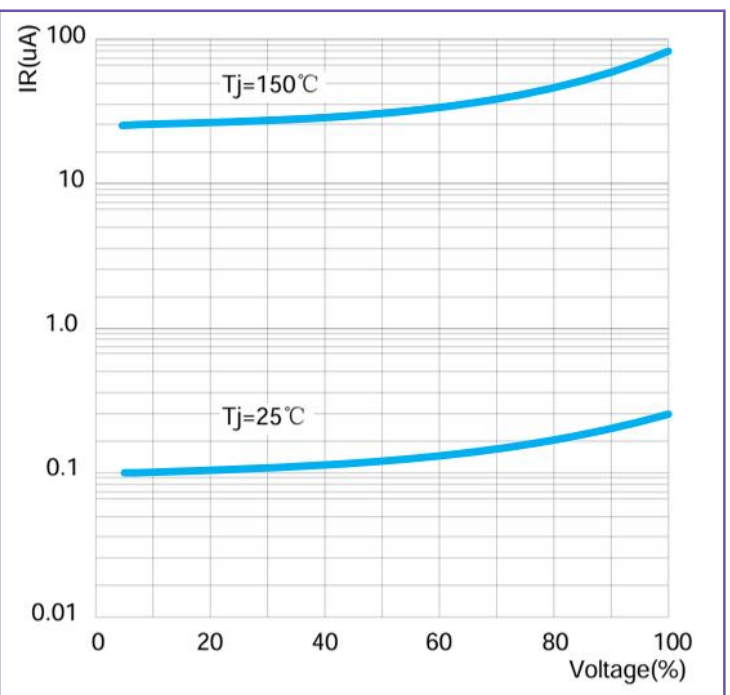
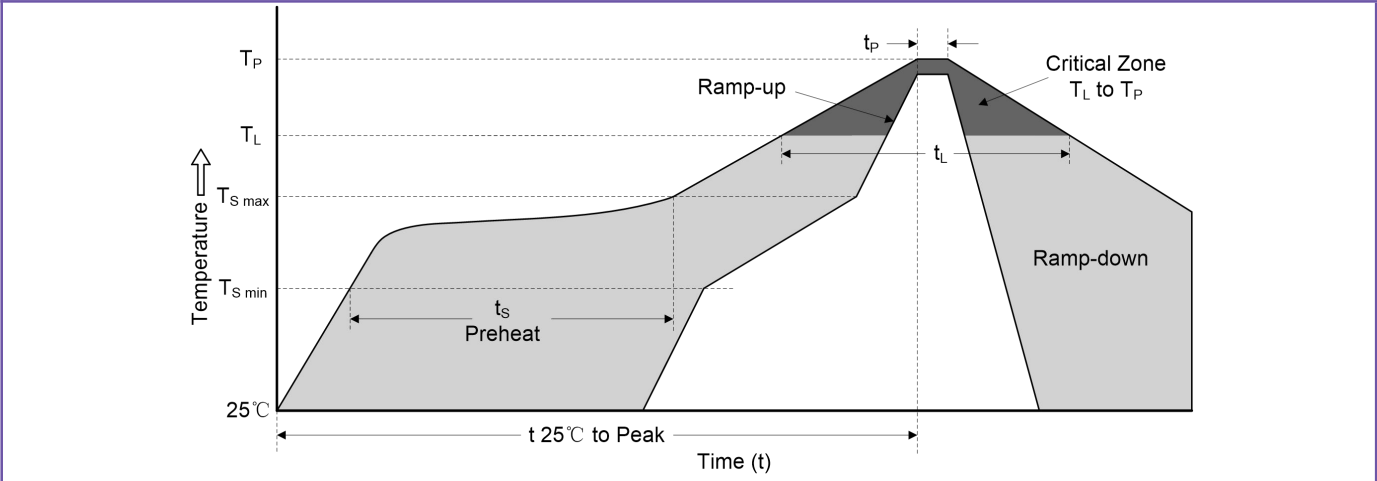


Figure 4. Typical Reverse Characteristics



Reflow Soldering Parameters



Reflow Condition		Lead-free Assembly
Pre heat	-Temperature Min ($T_{S\ min}$)	150°C
	-Temperature Max ($T_{S\ max}$)	200°C
	-Time (min to max) (t_s)	60-120 seconds
Average ramp-up rate (T_L to T_P)		3°C/second max.
$T_{S\ max}$ to T_L -Ramp-up Rate		3°C/second max.
Reflow	-Temperature (T_L) (Liquidus)	217°C
	-Time (min to max) (t_s)	60-150 seconds
Peak Temperature (T_P)		260(+0/-5)°C
Time within 5°C of actual Peak Temperature (t_p)		30 seconds
Ramp-down Rate		6°C/second max.
Time 25°C to Peak Temperature(T_p)		8 minutes max.
Do not exceed		260°C