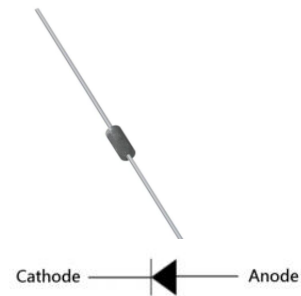


Features

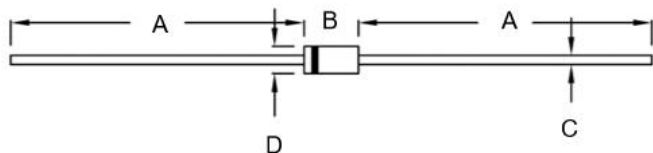
- ◆ Glass passivated chip junction
- ◆ High current capability, Low VF
- ◆ High reliability
- ◆ High surge current capability
- ◆ Low power loss, high efficiency
- ◆ RoHS Compliant
- ◆ Halogen-free
- ◆ Polarity: Cathode Band or Cathode Notch



Applications

- ◆ DC to DC converter
- ◆ Switching mode converters and inverters
- ◆ General purpose

Dimensions (DO-204AL/DO-41)



Symbol	Dimension			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	25.4	-	1.000	-
B	4.20	5.20	0.165	0.205
C	0.71	0.86	0.028	0.034
D	2.00	2.70	0.079	0.106

Maximum Ratings and Electrical Characteristics($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	FR 101G	FR 102G	FR 103G	FR 104G	FR 105G	FR 106G	FR 107G	Unit
Repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
RMS Reverse voltage	V _{RMS}	35	70	140	280	420	560	700	V
DC blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Average Forward current @Half-sine wave, Resistance load	I _O	1.0							A
Forward Surge peak forward current @60HZ sine wave, 1 cycle, T _A =25℃	I _{FSM}	30							A
Current squared time @1ms≤t8.3≤ms T _A =25℃, Rating of per diode	I ² t	3.7							A ² s
Peak Forward Voltage@I _F = 1.0A	V _{FM}	1.3							V
Peak Reverse Current V _R =V _{DC}	I _{RRM} @25℃	2.5							μA
	I _{RRM} @125℃	100							
Maximum reverse recovery time @I _F = 0.5A, I _R = 1.0A,I _{rr} = 0.25A	T _{rr}	150				250	500		ns
Thermal Resistance(Typical) @Between junction and ambient	R _{θJA}	60							℃/W
Storage Temperature	T _{stg}	-55~+150							℃
Junction Temperature	T _j	-55~+150							℃

Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Figure 1. Forward Current Derating Curve

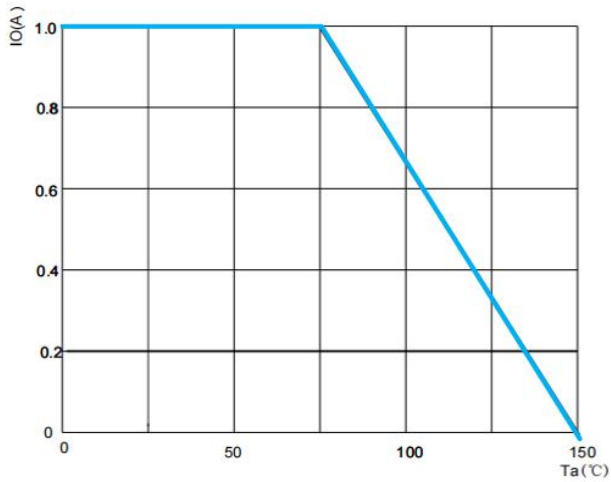


Figure 2. Forward Surge Current Capability

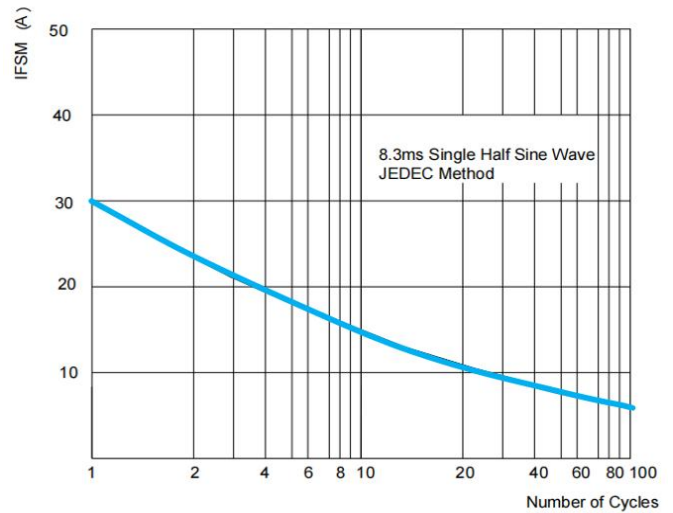


Figure 3. Typical Reverse Characteristics

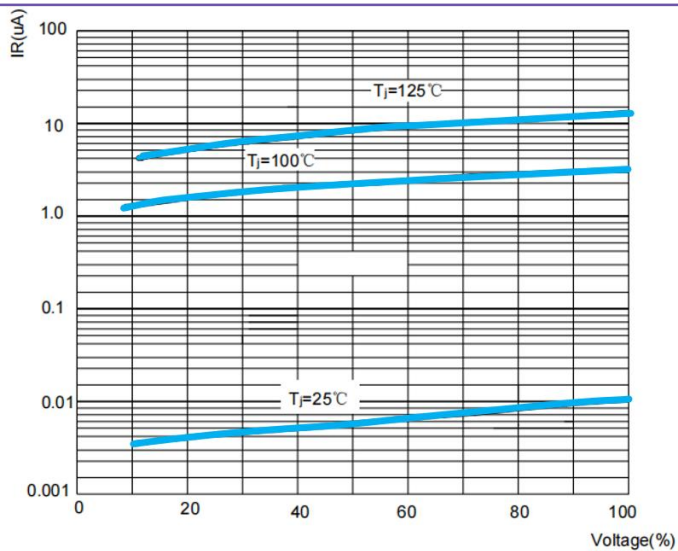
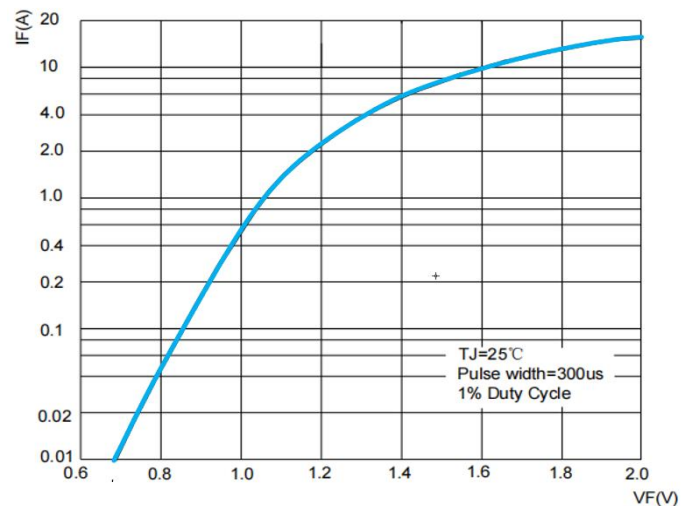


Figure 4. Typical Forward Characteristics



Wave Soldering Parameters

