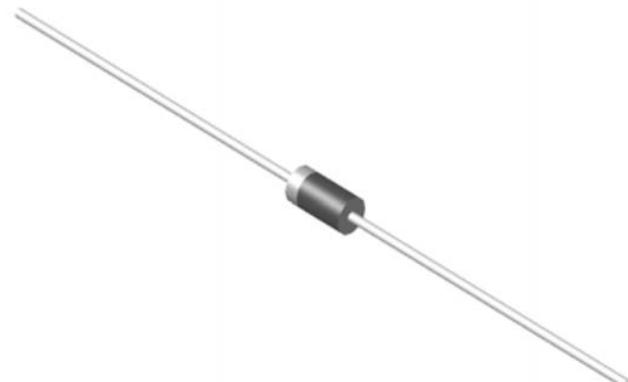


**FR101 THRU FR107**
**Fast Recovery Rectifier**
**Essential information; basic information**
**Features**

- High efficiency
- High current capability
- High reliability
- High surge current capability
- Low power loss
- Glass passivated chip junction
- Solder dip 265 ° C max. 5 s

**Mechanical Data**

- Package: DO-41
- Molding compound meets UL 94 V-0 flammability rating
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Cathode line denotes the cathode end


**Maximum Ratings (Ta=25°C Unless otherwise specified)**

PARAMETER	SYMBOL	UNIT	FR101	FR102	FR103	FR104	FR105	FR106	FR107
Maximum Repetitive peak reverse voltage	VRRM	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	VRMS	V	35	70	140	280	420	560	700
Maximum DC Blocking Voltage	VDC	V	50	100	200	400	600	800	1000
Average rectified output current@60Hz sine wave, resistance load, TL (Fig.1)	IO	A					1.0		
Maximum reverse recovery time (TRR)	IF=0.5A,IR=1.0A, Irr=0.25A	ns			150			500	
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Tj=25°C	IFSM	A					25		
Storage temperature	Tstg	°C				-55 ~ +150			
Junction temperature	Tj	°C				-55 ~ +150			



**CHINA BASE**  
INTERNATIONAL

**DO-41**



**FR101-FR107**

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PARAMETER	SYMBOL	UNIT	FR101	FR102	FR103	FR104	FR105	FR106	FR107
Maximum instantaneous forward voltage drop per diode	VF IFM=1.0A	V					1.35		
Maximum DC reverse current at rated DC blocking voltage per diode	IR T <sub>j</sub> =25°C	μ A					5		
	IR T <sub>j</sub> =125°C						100		

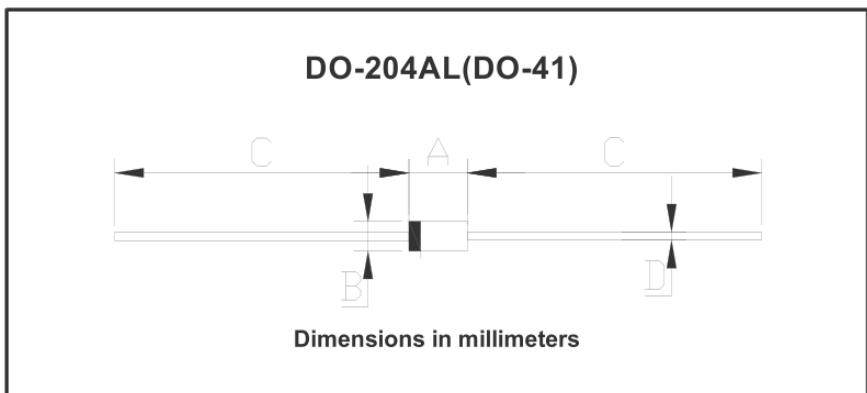
### Characteristics (Typical)

<p><b>FIG.1: Io-Ta Curve</b></p> <p>Single Phase Half Wave 60HZ Resistive or Inductive Load 0.375"(9.5mm) Lead Length</p>	<p><b>FIG.2: Forward Surge Current Capability</b></p> <p>8.3ms Single Half Sine Wave JEDEC Method</p>
<p><b>Lead Temperature (°C)</b></p> <p><b>FIG.3: Forward Voltage</b></p> <p>T<sub>j</sub>=25°C Pulse width=300us 1% Duty Cycle</p>	<p><b>Number of Cycles</b></p> <p><b>FIG4:Typical Reverse Characteristics</b></p> <p>T<sub>j</sub>=125°C T<sub>j</sub>=25°C</p>
<p><b>Instantaneous Forward Voltage(V)</b></p>	<p><b>Percent of Rated Peak Reverse Voltage (%)</b></p>

### Ordering Information (Example)

type specification	manner of packin	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
<b>FR101- FR107 (DO-41)</b>	T/B	5000	5000	50000	10 盒
	B/P	1000	1000	50000	50 盒

### Outline Dimensions



**DO-204AL(DO-41)**

Dim	Min	Max
A	4.22	5.21
B	2.03	2.72
C	20	/
D	0.5	0.86

### Disclaimer

The information presented in this document is for reference only. right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

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