

PB

Glass Passivated Fast Recovery Rectifier

D	O -'	15/	'D	0	-4'	1



Primary characteristics



Features

- ROHS compliant
- Glass passivated chip
- High forward surge capability
- Meet MSL level 1, per J-STD-020 LF maximum peak of 250 °C
- Solder dip 260 °C / 40S
- Component in accordance to ROHS 2002/95/EC • and WEEE 2002/96/WC
- UL recognition, file number E342874

Applications

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I _{F(AV)}	1.5A					
V _{RRM}	50V to 1000V					
I _{FSM}	50A					
I _{RM}	5uA					
V _{FM} at I _F =1.5 A	1.3V					
TJ max.	150 °C					
V _{FM} at I _F =1.5 A	1.3V					

Ideal for ac-to-dc bridge full wave rectification suck as SMPS, home applianes, office equipment, indusrial automation applicatios Mechanical data

- DO-15/DO-41
- Epoxy meets UL 94 V-0 flammability rating
- Terminals: Tin plated leads.
- Polarity: As marked.
- Mounting Torque:10cm-kg(8.8 inches-lbs)max.
- Recommended Torque:5.7 cm-kg(5 inches-lbs)

Maximum rating (Ta=25°C unless otherwise noted)

			DO-15/DO-41								
Parameter			FR	FR	FR	FR	FR	FR	FR	Unit	
			151G	152G	153G	154G	155G	156G	157G		
Max. repetitive peak reverse voltage		Vrrm	50	100	200	400	600	800	1000	V	
Max. RMS reverse voltage		VRMS	35	70	140	280	420	560	700	V	
Max. DC blocking voltage		V _{DC}	50	100	200	400	600	800	1000	V	
Max. average forward current		IF(AV)	1.5					А			
Non-repetitive peak forward surge current		1-0.1	50						A		
8.3ms single half-sine-wave		IFSM	50								
Max. instantaneous forward voltage drop per diode		VFM	1.3 (1.5A)					V			
Max. instantaneous reverse current	Ta=25 ⁰C		5								
at rated DC blocking voltage	Ta=125 °C	I _{RM}	100						μA		
Operating junction temperature		TJ	-55 ~ +150					°C			
Storage temperature		TSTG	-55 ~ +150					°C			
Maximum reverse recovery time (Note 1)		trr		15	50		250	50	00	nS	
Typical junction capacitance (Note 2)		CJ	25				pF				

Notes:

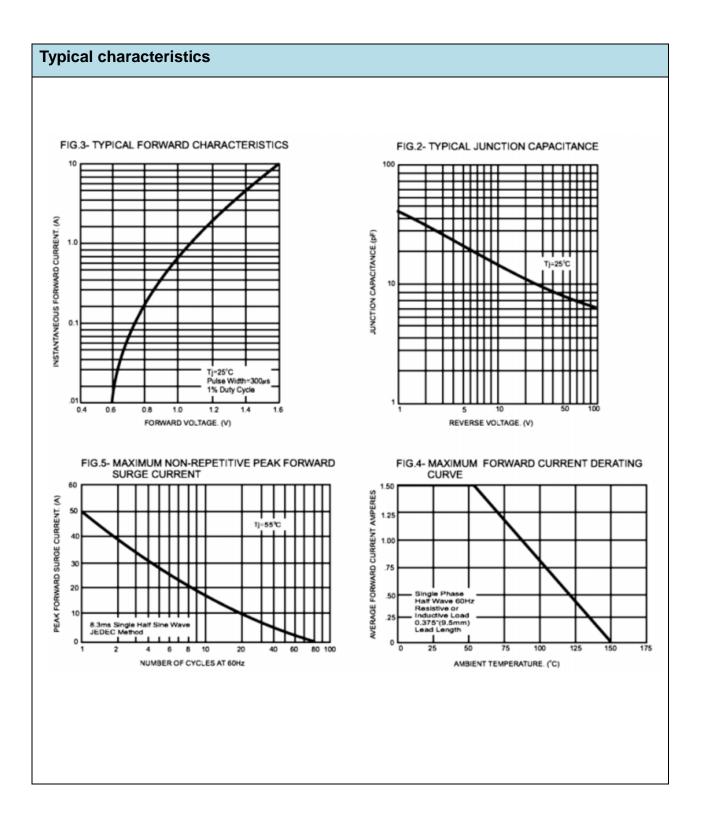
1 Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR}=0.25

2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C



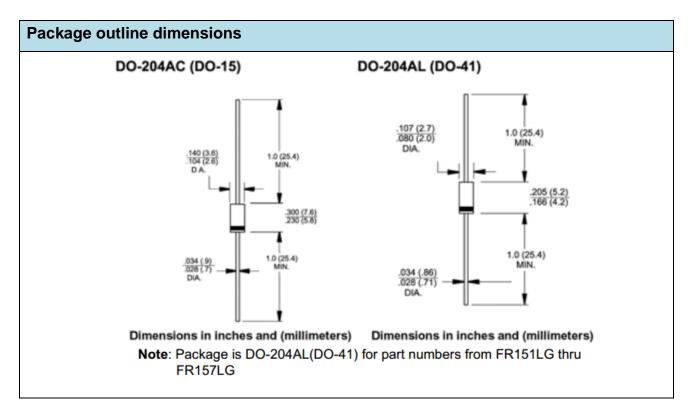
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Ordering information (Example)								
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE				
FR157G								





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