

Glass Passivated Junction Rectifiers

DO-15(DO-204AC)			Fe	ature	es							
			 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 									
Primary characteristics			Applications									
I _{F(AV)} 1.5A			Ideal for ac-to-dc bridge full wave rectification su								uck as	
V _{RRM}	50V to 1000V		SMPS, home applianes, office equipment, indusrial									srial
I _{FSM}	50A	automation applicatios										
I _{RM}	5uA											
V _{FM} at I _F =1.5A	1.4V		Mechanical data									
T _J max.	150 °C	;	Case:DO-15(DO-204AC)									
				 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=2	25°C unles	ss othe	erwise	e note	/							
Parameter		Sym	1N 5391 G	1N 5392 G	1N	O-15(1N 5394 G	DO-2 1N 5395 G	204A0 1N 5396 G	C) 1N 5397 G	1N 5398 G	1N 5399 G	Unit
Max. repetitive peak reverse vo	ltage	V _{RRM}	50	100	200	300	400	500	600	800	1000	V
Max. RMS reverse voltage		VRMS	35	70	140	210	280	350	420	560	700	V
Max. DC blocking voltage		V _{DC}	50	100	200	300	400	500	600	800	1000	V
Max. average forward current		IF(AV)	1.5								A	
Non-repetitive peak forward surge current 8.3ms single half-sine-wave		IFSM	50								А	
Max. instantaneous forward voltage drop per diode		V _{FM}	1.4(1.5A)							V		
Max. instantaneous reverse	Ta=25℃	_					5					μA
current at rated DC blocking voltage	Ta=125℃	Irm	300 ^µ				μA					
Operating junction temperature		TJ	-55 ~ +150								°C	
			-55 ~ +150									
Storage temperature		Tstg				-58	5 ~ +1	50				°C
		Tstg R j-a				-58	5 ~ +18 45	50				°C °C/W
Storage temperature	e 1) ote 2)					-58		50				

Notes: 1.Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

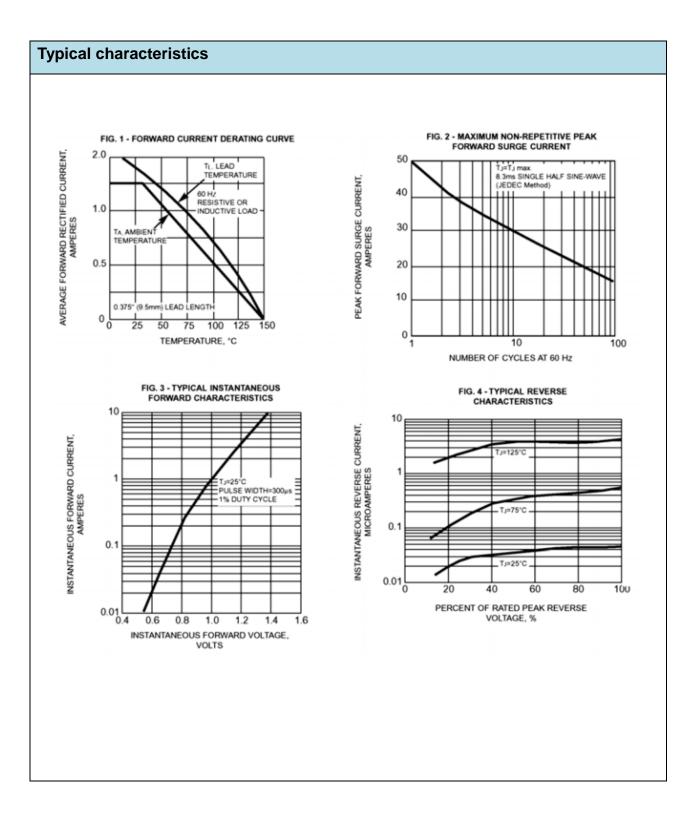
2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C

3. Reverse recovery test conditions: IF=0.5A, IR=1.0A, Irr=0.25A



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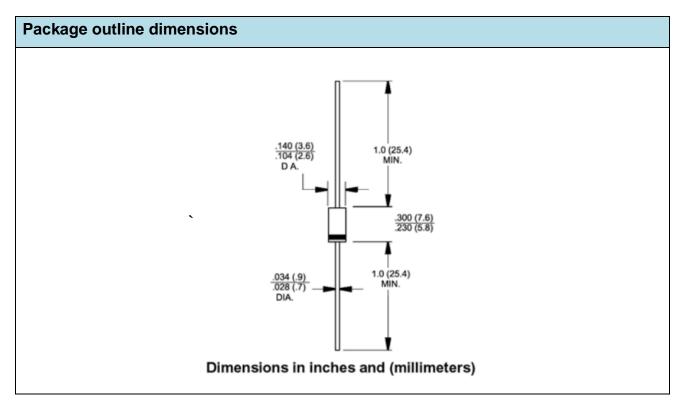
Ordering information (Example)								
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE				
1N5399G								





1N5391G thru 1N5399G.

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