

# **Glass Passivated Fast Recovery Rectifiers**

DO-41(DO-204AL)			Feat	ures				
-			<ul> <li>RC</li> <li>Gla</li> <li>Hig</li> <li>Me</li> <li>LF</li> <li>So</li> <li>Co</li> <li>and</li> </ul>	OHS compl ass passive gh forward eet MSL lev maximum Ider dip 26 mponent in d WEEE 2	ated chip surge cap /el 1, per J peak of 25 i0 °C / 40S n accordar 002/96/WC	-STD-020 50 °C		PB 5/EC
Primary characteristics			Applications					
I <sub>F(AV)</sub>		1A	Ideal	Ideal for ac-to-dc bridge full wave rectification suck as				
V <sub>RRM</sub>	400V	to 1000V	SMPS, home applianes, office equipment, indusrial					
I <sub>FSM</sub>	2	20A	automation applicatios					
I <sub>RM</sub>		5uA	-					
V <sub>FM</sub> at I <sub>F</sub> =1 A		.3V	Mechanical data					
T <sub>J</sub> max.		.0 °C	• DO-41(DO-204AL)					
	0500		<ul> <li>Po</li> <li>Mo</li> <li>Re</li> </ul>	larity: As m punting Tor commende	que:10cm-	ads. ·kg(8.8 incł 5.7 cm-kg(	,	
Maximum rating (Ta	a=25°C l	iniess othe	rwise r	iotea)		0.204.01.)		
Parameter	Parameter		Sym	BA157G	DO-41(D BA158G	1	DA150C	Unit
Max repetitive peak revers	e voltage		Vrrm	400	600			V
Max. RMS reverse voltage	/ax. repetitive peak reverse voltage		VRMS	280	420	560	700	V
Max. DC blocking voltage			V <sub>DC</sub>	400	600	800	1000	V
Max. average forward curre	ent		IF(AV)	1			А	
Non-repetitive peak forward surge current								
8.3ms single half-sine-wave			IFSM 20					A
Max. instantaneous forward voltage drop per diode			Vfm	1.3 (1A)			V	
Max. instantaneous reverse current at rated DC blocking voltage		Ta=25 ⁰C	I <sub>RM</sub>	5			μA	
Operating junction temperature			TJ	-55 ~ +150			°C	
Storage temperature			Tstg	-55 ~ +150			°C	
Maximum reverse recovery time (Note 1)			trr	15	50	250	500	nS
Typical thermal resistance (Note 2)			R θ JA	55			oC/W	
Typical junction capacitance (Note 3)			CJ		1	5		pF

#### Notes:

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

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

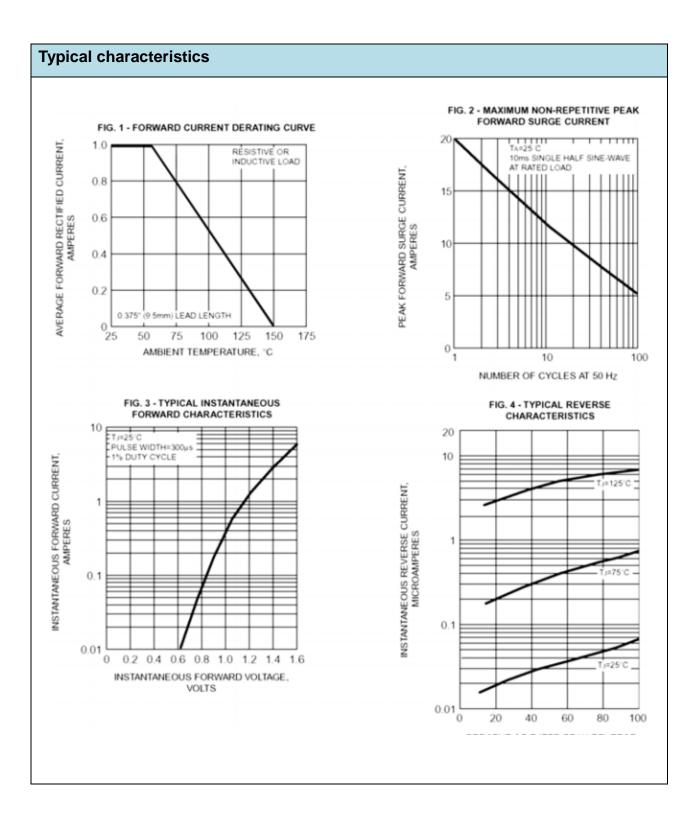
3. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C



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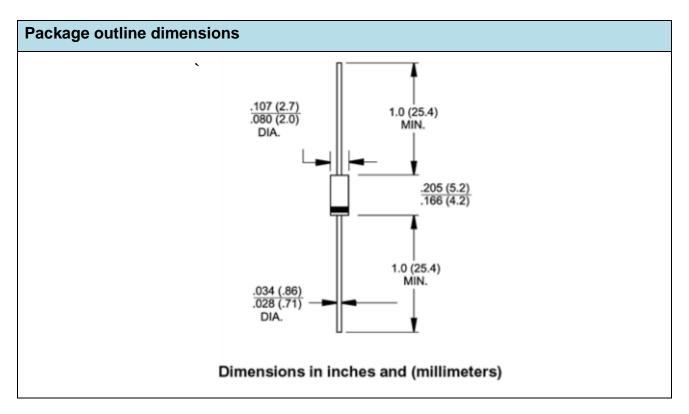
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Ordering information (Example)							
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE			
BA159G							





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