

High-reliability discrete products and engineering services since 1977

1N5829-1N5831

25A SCHOTTKY BARRIER RECTIFIERS

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

MAXIMUM RATINGS

Symbol	Parameter	Value	
T _{STG}	Storage temperature range	-65° to +125°C	
Tı	Operating junction temperature range -65° to +125°C		
R _{0JC}	Maximum thermal resistance	1.75°C/W junction to case	
R _{0JS}	Typical thermal resistance	0.5°C/W junction to sink	
	Mounting torque	15 inch pounds maximum	
	Weight	6 grams (.02 ounces) typical	

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

Symbol	Characteristic	1N5829	1N5830	1N5831	Test Condition
V _{RWM}	Working peak reverse voltage	20V	30V	40V	
V _{RRM}	Repetitive peak reverse voltage	20V	30V	40V	
I _{F(AV)}	Average forward current	25A	25A	25A	$T_C = 97$ °C, square wave, $R_{\theta JC} = 1.75$ °C/W
I _{FSM}	Maximum surge current	800A	800A	800A	8.3ms, half sine, T _J = 125°C
V _{FM}	Maximum peak forward voltage	.360V	.370V	.380V	I _{FM} = 10A: T _J = 25°C*
V _{FM}	Maximum peak forward voltage	.440V	.460V	.480V	I _{FM} = 25A: T _J = 25°C*
V _{FM}	Maximum peak forward voltage	.720V	.770V	.820V	I _{FM} = 78.5A: T _J = 25°C*
I _{RM}	Maximum peak reverse current	150mA	150mA	150mA	V _{RRM} , T _J = 100°C
I _{RM}	Maximum peak reverse current	3.0mA	3.0mA	3.0mA	V _{RRM} , T _J = 25°C
C _J	Typical junction capacitance	1650pF	1650pF	1650pF	T _J = 25°C, V _R = 5V, f = 1MHz



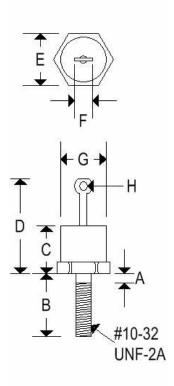
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MECHANICAL CHARACTERISTICS

Case	DO-4(R)	
Marking	Alpha-numeric	
Normal polarity	Cathode is stud	
Reverse polarity	Anode is stud (add "R" suffix)	



	DO-4(R)					
	Inches		Millimeters			
	Min	Max	Min	Max		
Α	-	0.078	-	1.981		
В	0.422	0.453	10.719	11.506		
С	-	0.405	-	10.287		
D	-	0.800	-	20.320		
Е	0.420	0.440	10.668	11.176		
F	-	0.250	-	6.350		
G	-	0.424	-	10.770		
Н	0.066	-	1.676	-		



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