DIGITRON SEMICONDUCTORS

1N6095-1N6096 25 AMP SCHOTTKY RECTIFIER

MAXIMUM RATINGS

Symbol	Parameter	Value
T_{STG}	Storage temperature range	-65 to +150°C
T_J	Operating junction temperature range	-65 to +150°C
$R_{\theta JC}$	Maximum thermal resistance	2.0°C/W junction to Case
	Maximum mounting torque	15 inch pounds maximum
	Weight	0.2 ounces (6.0 grams) typical

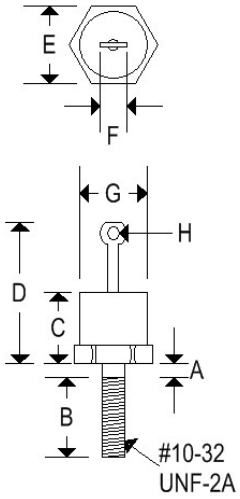
ELECTRICAL CHARACTERISTICS

Symbol	Parameter	1N6095	1N6096	Test Conditions
VRWM	Working peak reverse voltage	30V	40V	
VRRM	Repetitive peak reverse voltage	30V	40V	
$I_{F(AV)}$	Average forward current	25A		T_C = 70°C, half sine wave, $R_{\theta JC}$ = 2.0°C/W
I_{FSM}	Maximum surge current	400A		8.3ms, half sine
$I_{R(OV)}$	Maximum repetitive peak reverse current	2A		f = 1 KHz, 25°C, 1 µsec square wave
V_{FM}	Maximum peak forward voltage	.86V		I_{FM} = 78.5A, T_C = 70°C*
V_{FM}	Maximum peak forward voltage	.60V		I_{FM} = 5A, T_J = 25°C*
I_{RM}	Maximum peak reverse current	250mA		V_{RRM}, T_J = 125°C*
I_{RM}	Maximum peak reverse current	1.5mA		V_{RRM}, T_J = 25°C
C_J	Typical junction capacitance	6000pF		V_R = 1.0V, T_J = 25°C

Pulse test: Pulse width 300 µsec, duty cycle 2%

MECHANICAL CHARACTERISTICS

Case	DO-4
Marking	Alpha numeric
Polarity	Cathode is stud, reverse polarity = anode is stud



	DO-4			
	Inches		Millimeters	
	Min	Max	Min	Max
A	-	0.078	-	1.981
B	0.422	0.453	10.719	11.506
C	-	0.405	-	10.287
D	-	0.800	-	20.320
E	0.420	0.440	10.668	11.176
F	-	0.250	-	6.350
G	-	0.424	-	10.770
H	0.066	-	1.676	-

Available Non-RoHS (standard) or RoHS compliant (add PBF suffix).
Available as “HR” (high reliability) screened per MIL-PRF-19500, JANTX level. Add “HR” suffix to base part number.

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Rev. 20121127

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Figure 1
Typical Forward Characteristics

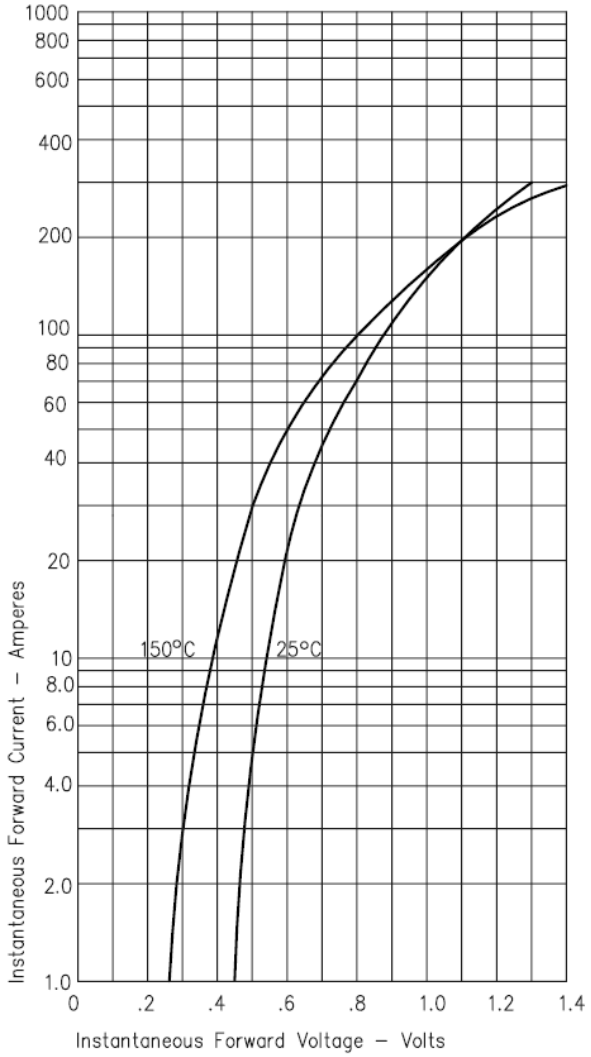


Figure 2
Typical Reverse Characteristics

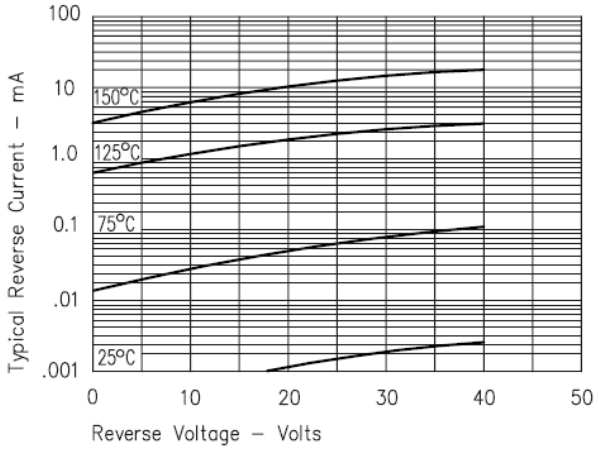


Figure 3
Typical Junction Capacitance

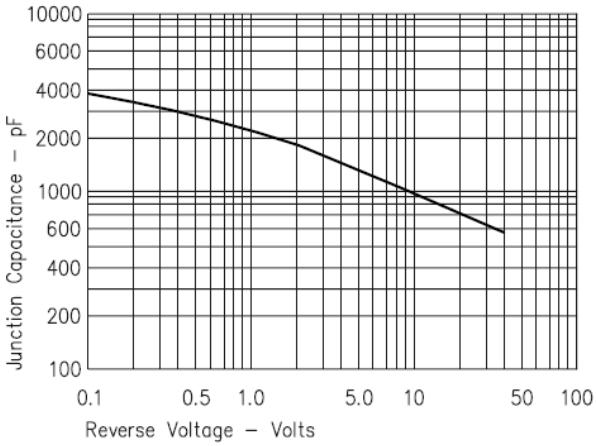


Figure 4
Forward Current Derating

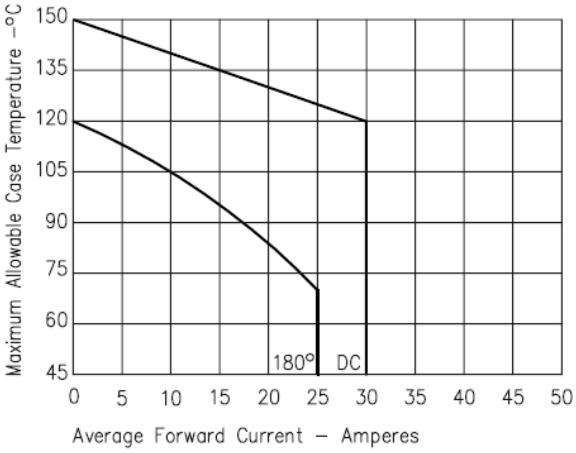
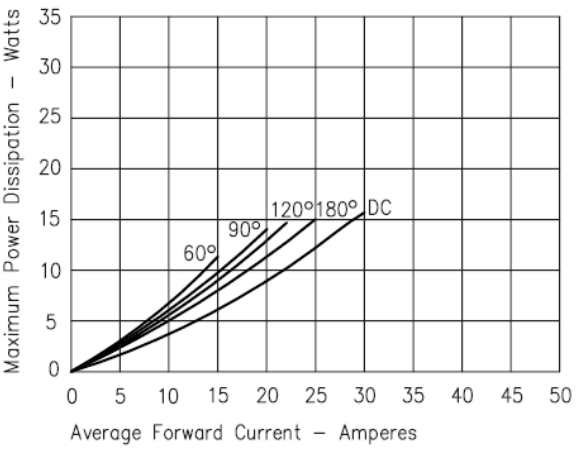


Figure 5
Maximum Forward Power Dissipation



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