UG4A THRU UG4D

ULTRAFAST EFFICIENT PLASTIC RECTIFIER Reverse Voltage – 50 to 200 V Forward Current – 4 A

Features

- Ultrafast recovery time for high efficiency
- Soft recovery characteristics
- Excellent high temperature switching
- Glass passivated junction

Mechanical Data

- Case: Molded plastic, DO-201AD
- Terminals: Plated axial leads, solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any

Absolute Maximum Ratings and Characteristics

Ratings at 25 °C ambient temperature unless otherwise specifie

specified.					
Symbols	UG4A	UG4B	UG4C	UG4D	Units
V _{RRM}	50	100	150	200	V
V _{RMS}	35	70	105	140	V
V _{DC}	50	100	150	200	V
I _(AV)	4			А	
I _{FSM}	150			А	
V _F	0.95			V	
I _R	5 300			μA	
t _{rr}	20			ns	
t _{rr}	30 50			ns	
Q _{rr}	15 30			nC	
CJ	20			pF	
R _{θJA}	25			°C/W	
T _J , T _{stg}	-55 to +150			°C	
	$\begin{tabular}{l l l l l l l l l l l l l l l l l l l $	Symbols UG4A V _{RMM} 50 V _{RMS} 35 V _{DC} 50 I _(AV) 50 I _(AV) 50 I _{FSM} - V _F - I _R - I _R - I _R - Q _{rr} - C _J - R _{θJA} -	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c } Symbols & UG4A & UG4B & UG4C \\ \hline V_{RRM} & 50 & 100 & 150 \\ \hline V_{RMS} & 35 & 70 & 105 \\ \hline V_{DC} & 50 & 100 & 150 \\ \hline I_{(AV)} & & & & & \\ \hline I_{(AV)} & & & & & & \\ \hline I_{FSM} & & & & & & & \\ \hline V_F & & & & & & & & \\ \hline V_F & & & & & & & & \\ \hline V_F & & & & & & & & & \\ \hline V_F & & & & & & & & & \\ \hline I_{R} & & & & & & & & & \\ \hline I_R & & & & & & & & & \\ \hline I_R & & & & & & & & & \\ \hline I_R & & & & & & & & & & \\ \hline I_R & & & & & & & & & & \\ \hline I_R & & & & & & & & & & \\ \hline I_R & & & & & & & & & & \\ \hline I_R & & & & & & & & & & \\ \hline I_{R0} & & & & & & & & & & \\ \hline I_{R0} & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & & & & & & &$	$\begin{array}{c c c c c c } Symbols & UG4A & UG4B & UG4C & UG4D \\ \hline V_{RRM} & 50 & 100 & 150 & 200 \\ \hline V_{RMS} & 35 & 70 & 105 & 140 \\ \hline V_{DC} & 50 & 100 & 150 & 200 \\ \hline I_{(AV)} & & & & & & \\ \hline I_{(AV)} & & & & & & & \\ \hline I_{FSM} & & & & & & & & \\ \hline V_F & & & & & & & & & \\ \hline V_F & & & & & & & & & & \\ \hline V_F & & & & & & & & & & \\ \hline V_F & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & & & & & & & &$

 $^{1)}$ Reverse recovery test conditions: I_{F} = 0.5 A, I_{R} = 1 A, I_{rr} = 0.25 A.

²⁾ t_{rr} and Q_{rr} measured at tester: I_F = 4 A, V_R = 30 V, di/dt = 50 A/µs, I_{rr} = 10% I_{RM} for measurement of t_{rr} .

³⁾ Measured at 1 MHz and applied reverse voltage of 4 V.

⁴⁾ Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length.





Dated : 26/04/2006 C

1.0 (25.4) MIN.

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0.375(9.5)

0.285(7.2)

DO-201AD

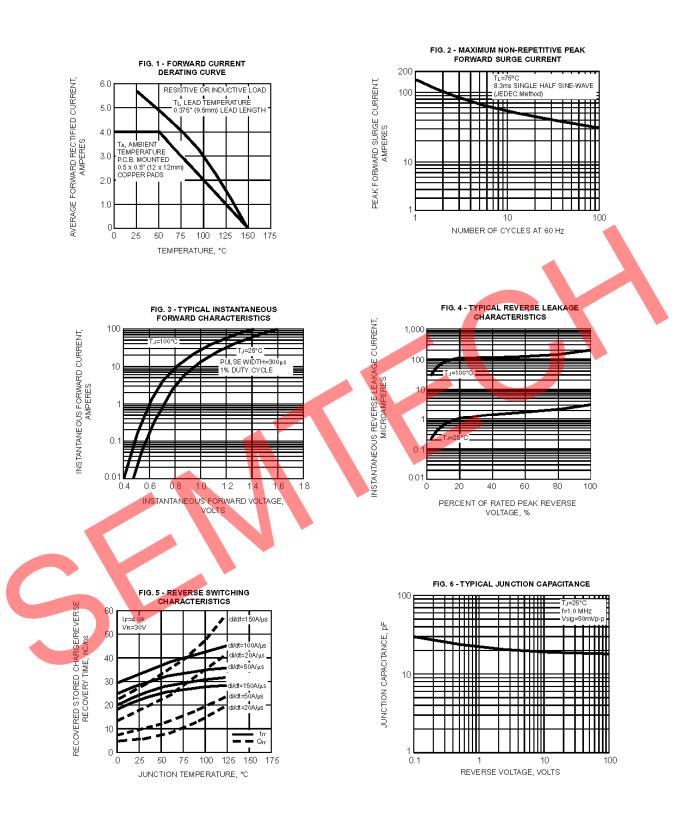
0.052(1.32)

0.048(1.22)

0.210(5.3)

0.190(4.8)

Dimensions in inches and (millimeters)







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