

Axial Lead Ultra Fast Rectifiers

Pb Lead(Pb)-Free

Features:

- *Low forward voltage drop
- *High current capability
- *High reliability
- *High surge current capability
- *High speed switching

Mechanical Data:

- *Case: Molded plastic
- *Epoxy: UL 94V-0 rate flame retardant
- *Lead: Axial leads, solderable per
- *MIL-STD-202, method 208 guaranteed
- *Polarity: Color band denotes cathode en
- *Mounting position: Any
- *Weight: 0.34grams

REVERSE VOLTAGE
50-1000 VOLTS
FORWARD CURRENT
1.0 AMPERE

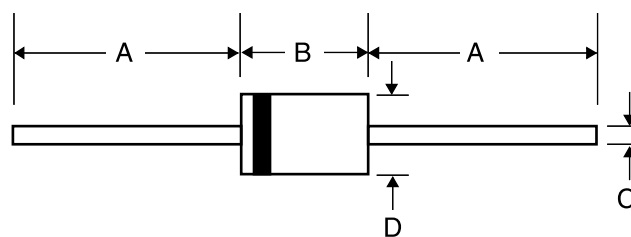


DO-41

DO-41 Outline Dimensions

Unit:mm

Axial Device (Through-Hole)



	A		B		C		D	
Dim	Min	Max	Min	Max	Min	Max	Min	Max
DO-41	25.40	-	4.06	5.20	0.70	0.90	2.00	2.70

Maximum Rating

Characteristic	Symbol	UF4001	UF4002	UF4003	UF4004	UF4005	UF4006	UF4007	Units
Maximum repetitive peak reverse voltage @ I _T = 5μA	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current @ T _a = 55°C	I _F	1.0							A
Maximum Instantaneous Forward Voltage at Specified Current	V _F	1.0				1.7			V
Maximum DC Reverse Current	I _R	5.0							μA
Maximum Reverse Recovery Time	T _{rr}	50				75			nS
Operating and Storage temperature range	T _j , T _{STG}	-55 to +150							°C

RATING AND CHARACTERISTIC CURVES

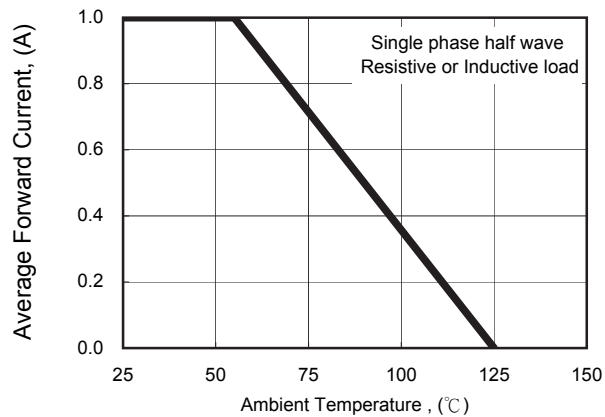


Fig. 1 - Forward Current Derating Curve

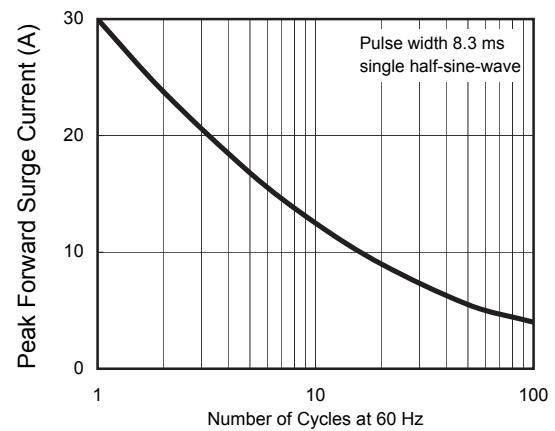


Fig. 2 - Peak Forward Surge Current

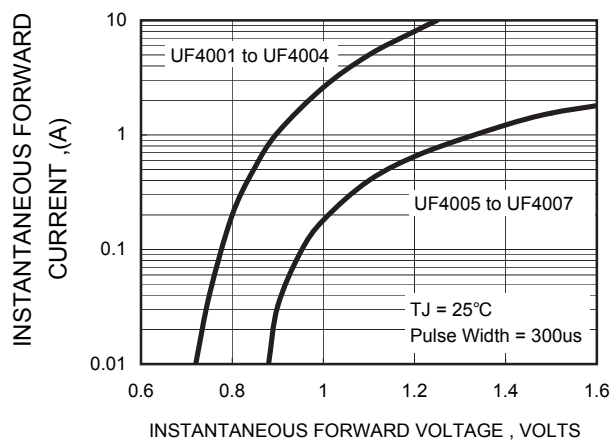


Fig. 3 - Typical Forward Characteristics

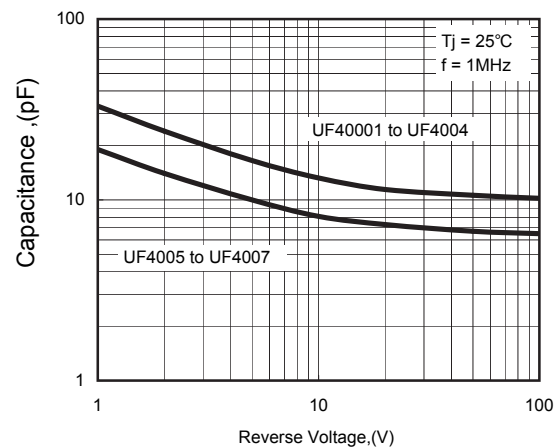


FIG.4 - Typical Junction Capacitance