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August 2016



UF4001 - UF4007 Fast Rectifiers

Features

- Low Forward Voltage Drop
- High Surge Current Capability
- High Reliability
- High Current Capability
- Glass-Passivated Junction



Ordering Information

Part Number	Top Mark	Package	Packing Method
UF4001	UF4001	DO-204AL (DO-41)	Tape and Reel
UF4002	UF4002	DO-204AL (DO-41)	Tape and Reel
UF4003	UF4003	DO-204AL (DO-41)	Tape and Reel
UF4004	UF4004	DO-204AL (DO-41)	Tape and Reel
UF4005	UF4005	DO-204AL (DO-41)	Tape and Reel
UF4006	UF4006	DO-204AL (DO-41)	Tape and Reel
UF4007	UF4007	DO-204AL (DO-41)	Tape and Reel

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_A = 25^{\circ}$ C unless otherwise noted.

	Parameter		Value						
Symbol			UF 4002	UF 4003	UF 4004	UF 4005	UF 4006	UF 4007	Unit
V _{RRM}	Maximum Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
I _{F(AV)}	Average Rectified Forward Current .375 " Lead Length at T _A = 75°C	1.0						А	
I _{FSM}	Non-Repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	30					А		
T _{STG}	Storage Temperature Range	-65 to +150					°C		
Т _Ј	Operating Junction Temperature	-65 to +150					°C		

Thermal Characteristics

Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

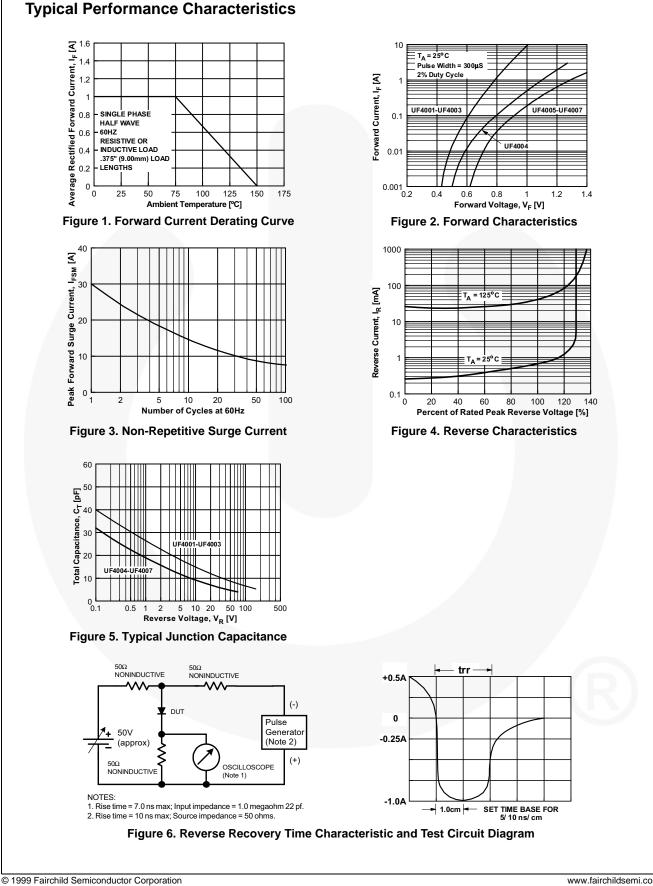
Symbol	Parameter	Value	Unit
PD	Power Dissipation	2.08	W
R_{\thetaJA}	Thermal Resistance, Junction-to-Ambient	60	°C/W
$R_{ ext{ heta}JL}$	Thermal Resistance, Junction-to-Lead	30	°C/W

Electrical Characteristics

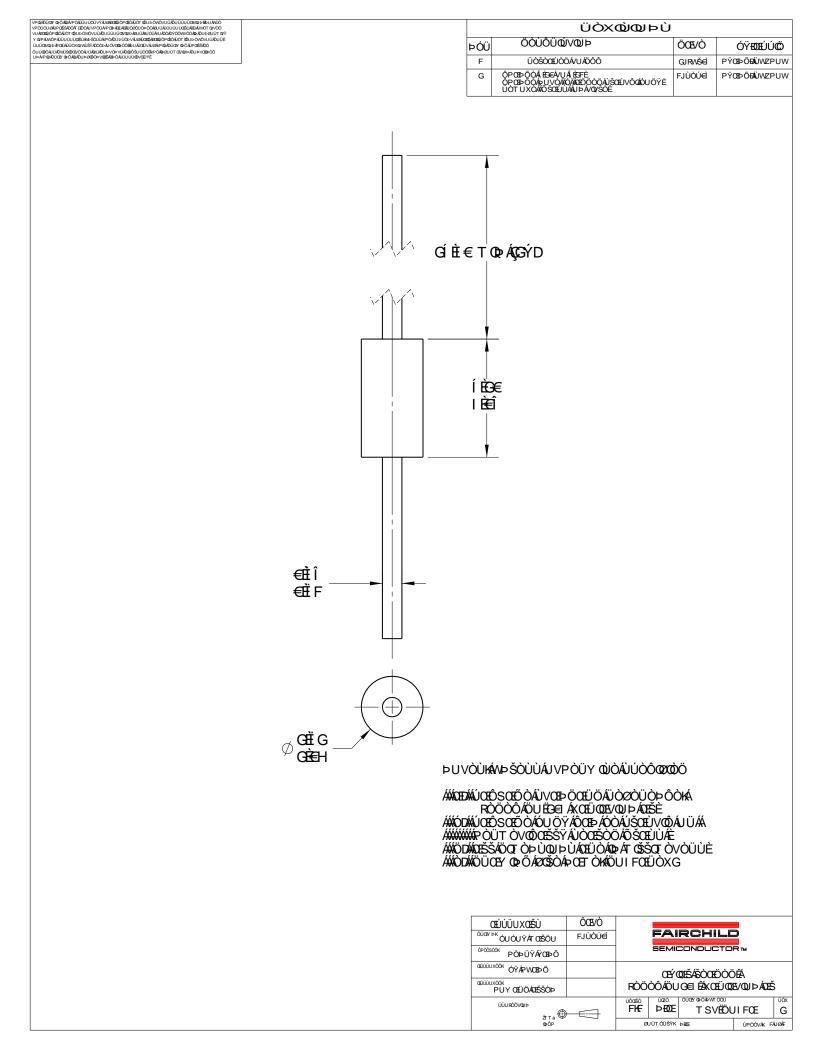
Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

Symbol		Conditions	Value							
	Parameter		UF 4001	UF 4002	UF 4003	UF 4004	UF 4005	UF 4006	UF 4007	Unit
V _F	Maximum Forward Voltage	I _F = 1.0 A	1.0			1.7			V	
t _{rr}	Maximum Reverse Recovery Time	I _F = 0.5 A, I _R = 1.0 A, I _{RR} = 0.25 A	50			75			ns	
_	Maximum Reverse Current at Rated V _R	$T_A = 25^{\circ}C$		10						μΑ
		T _A = 100°C		50						
C _T	Maximum Total Capacitance	V _R = 4.0 V, f = 1.0 MHz				17				pF

UF4001 - UF4007 — Fast Rectifiers



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