DFR1A THRU DFR1M

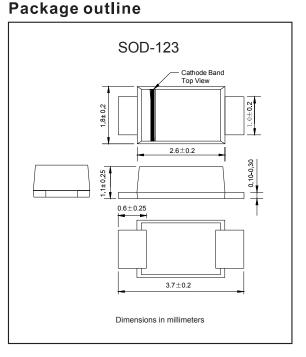
1.0A Surface Mount Fast Recovery Rectifiers-50-1000V

Features

- Glass passivated device
- Ideal for surface mouted applications
- Low reverse leakage
- Metallurgically bonded construction
- High temperature soldering guaranteed: 250°C/10 seconds,0.375″(9.5mm) lead length, 5 lbs. (2.3kg) tension
- Compliant to RoHS Directive 2011/65/EU
- Compliant to Halogen-free

Mechanical data

- Case : JEDEC SOD-123 molded plastic body over passivated chip
- Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight :0.0007 ounce, 0.02 grams



Maximum ratings and Electrical Characteristics (AT T_A=25°C unless otherwise noted)

_						
PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.2	I _o			1.0	А
Forward surge current	8.3ms single half sine-wave (JEDEC methode)	I _{FSM}			25	А
Reverse current	$V_{R} = V_{RRM} T_{A} = 25^{\circ}C$				5.0	μA
	$V_{R} = V_{RRM} T_{A} = 100^{\circ}C$	R			50	
Thermal resistance	Junction to ambient NOTE 1	$R_{_{\theta JA}}$		50		°C/W
Diode junction capacitance	f=1MHz and applied 4V DC reverse voltage	C		15		рF
Storage temperature		Т _{stg}	-65		+150	°C

SYMBOLS	V _{RRM} *1 (V)	V _{RMS} *2 (V)	V ^{*3} (V)	V _Ĕ *4 (V)	t" ^{*5} (ns)	Operating temperature T _J , (°C)
DFR1A	50	35	50			
DFR1B	100	70	100		150	
DFR1D	200	140	200		150	
DFR1G	400	280	400	1.30		-55 to +150
DFR1J	600	420	600		250	
DFR1K	800	560	800		500	
DFR1M	1000	700	1000		500	

- *1 Repetitive peak reverse voltage
- *2 RMS voltage
- *3 Continuous reverse voltage
- *4 Maximum forward voltage@l_F=1.0A
- *5 Maximum Reverse recovery time, note 2

Note: 1.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

2. Reverse recovery time test condition, IF=0.5A, IR=1.0A, IRR=0.25A



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Formosa MS

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DFR1A THRU DFR1M

Rating and characteristic curves (DFR1A THRU DFR1M)

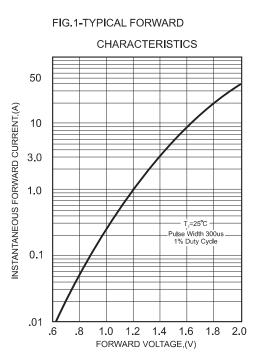
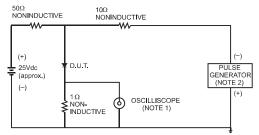
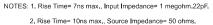


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE







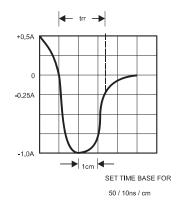
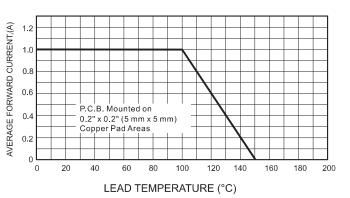
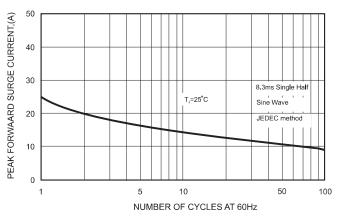
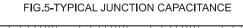


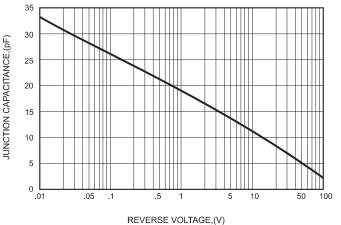
FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE











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DFR1A THRU DFR1M

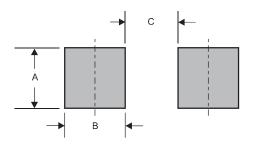
Pinning information

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode	1 2	1 2

Marking

Type number	Marking code		
DFR1A	F1		
DFR1B	F2		
DFR1D	F3		
DFR1G	F4		
DFR1J	F5		
DFR1K	F6		
DFR1M	F7		

Suggested solder pad layout



Dimensions in inches and (millimeters)

PACKAGE	А	В	С
SOD-123	0.075 (1.90)	0.055 (1.40)	0.075 (1.90)



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