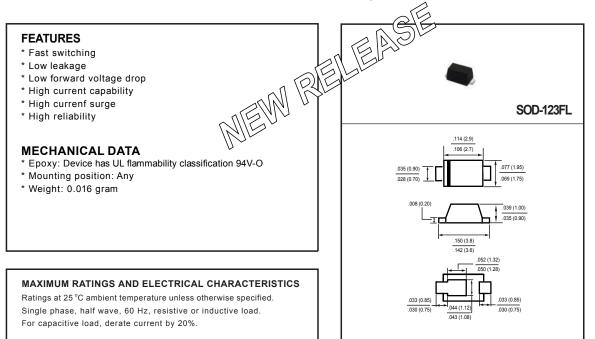




SURFACE MOUNT FAST RECOVERY RECTIFIER

VOLTAGE RANGE 50 to 600 Volts CURRENT 0.5 Ampere



Dimensions in inches and (millimeters)

2007-7

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	05F1L	05F2L	05F3L	05F4L	05F5L	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	Volts
Maximum Average Forward Rectified Current at $T_A = 55^{\circ}C$	IO	0.5					
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	15					
Typical Thermal Resistance (Note 4)	R _{0JA}	32					°C/W
	R _{0JL}	150					
Typical Junction Capacitance (Note 2)	CJ	15					
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150					

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERISTICS	SYMBOL	05F1L	05F2L	05F3L	05F4L	05F5L	UNITS	
Maximum Instantaneous Forward Voltage at 1.0ADC	VF	1.3						
Maximum DC Reverse Current at Rated DC Blocking Voltage T _A = 25°C		5.0					uAmps	
Maximum Full Load Reverse Current Full Cycle Average, .375" (9.5mm) lead length at TL = $55^{\circ}C$	IR			100			uAmps	
Maximum Reverse Recovery Time (Note 1)	trr	150				250	nSec	

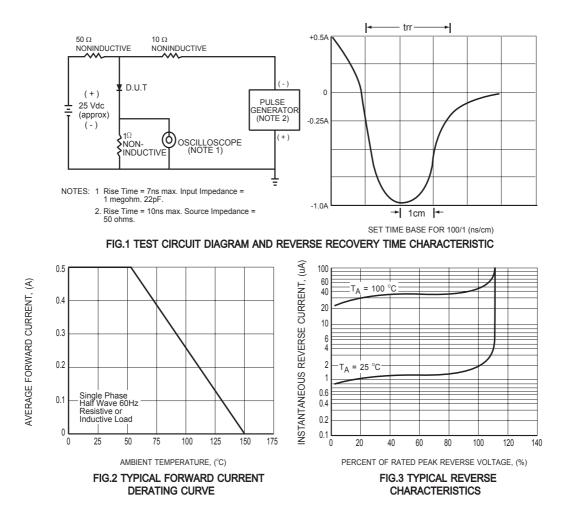
NOTES : 1. Reverse Recovery Test Conditions: IF = 0.5A, IR = -1.0A, IRR = -0.25A

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts

3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

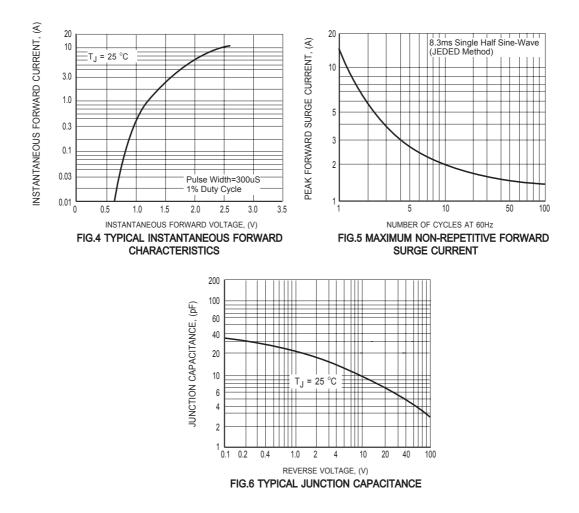
4. Thermal Resistance : Mounted on PCB.

RATING AND CHARACTERISTICS CURVES (05F1L THRU 05F5L)



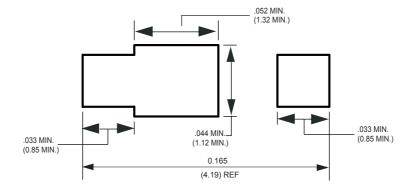








Mounting Pad Layout



Dimensions in inches and (millimeters)



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