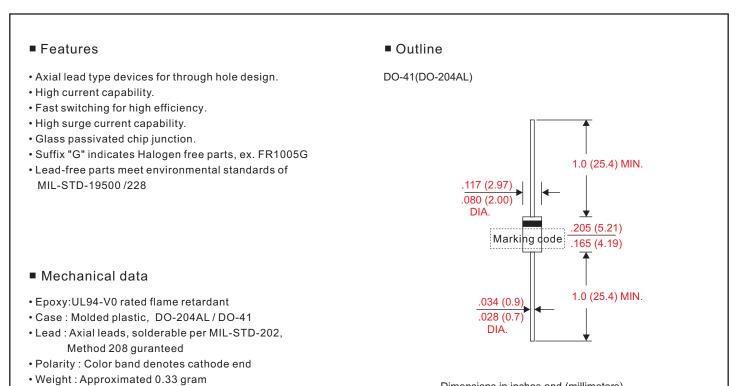
IC

FR1005 THRU FR110

1A Leaded Type Fast Rectifiers



Dimensions in inches and (millimeters)

Maximum ratings and electrical characteristics

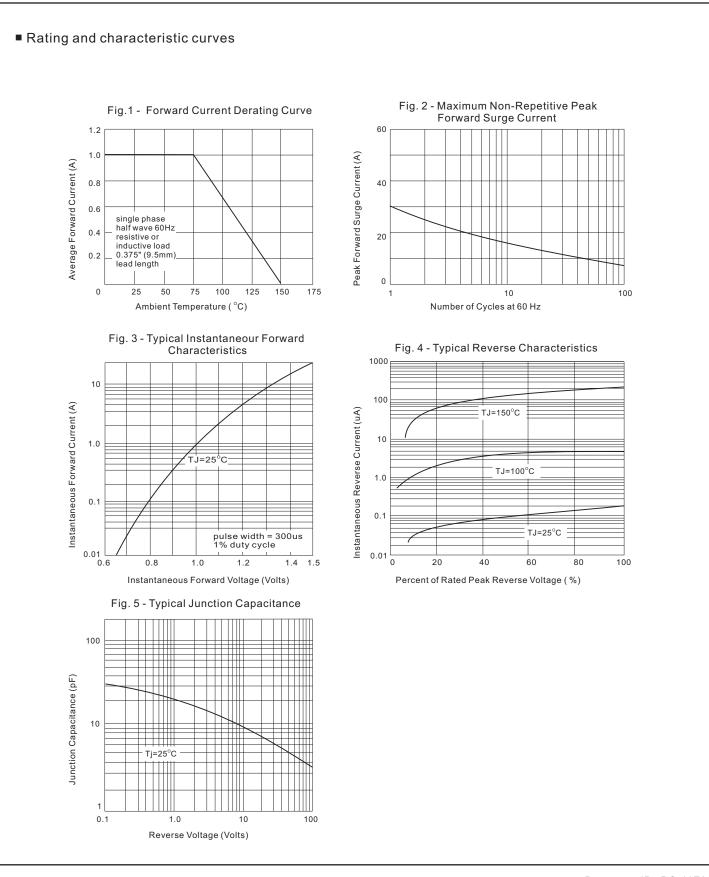
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	0.375"(9.5mm) lead length at $T_A = 75^{\circ}C$	I _o			1.0	А
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{fsm}			30	А
-	$V_{R} = V_{RRM} T_{A} = 25^{\circ}C$				5.0	uA
Reverse current	$V_{R} = V_{RRM} T_{A} = 125^{\circ}C$	I _R			100	
Thermal resistance	Junction to ambient	R _{eja}		50		°C/W
Diode junction capacitance	f=1MHz and applied 4V DC reverse voltage	C		15		pF
Storage temperature		T _{stg}	-55		+150	°C

	-				-	-	-	
Symbol	Marking code	Max. repetitive peak reverse voltage V _{RRM} (V)	Max. RMS voltage V _{RMS} (V)	Max. DC blocking voltage V _R (V)	Max. forward voltage @1A, $T_A = 25^{\circ}C$ $V_F(V)$	Max. reverse recovery time(1) T _{rr} (ns)	Operating temperature T _J (°C)	
FR1005	FR1005	50	35	50			-55 ~ +150	
FR101	FR101	100	70	100		150		
FR102	FR102	200	140	200				
FR104	FR104	400	280	400	1.30			
FR106	FR106	600	420	600		250		
FR108	FR108	800	560	800		500		
FR110	FR110	1000	700	1000		500		
Note : 1. I _F = 0.5A,	I _R = 1.0A , I _{RR} = 0.25A							



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