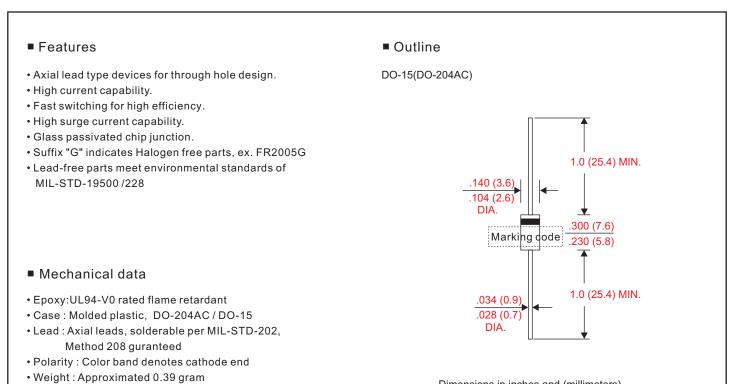
# **IC**

# **FR2005 THRU FR210**

## **2A Leaded Type Fast Rectifiers**



Dimensions in inches and (millimeters)

#### Maximum ratings and electrical characteristics

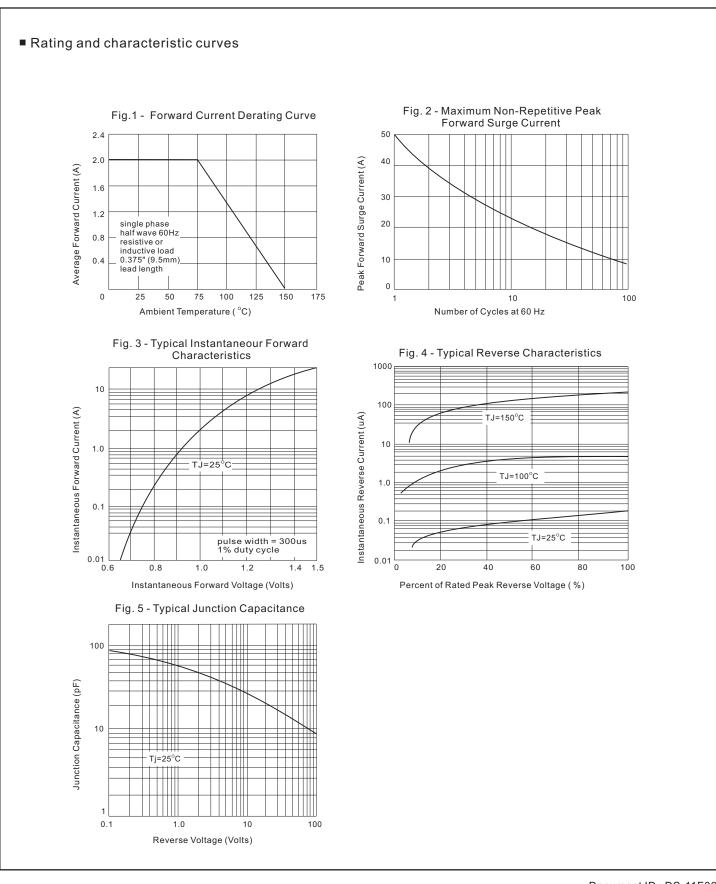
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	0.375"(9.5mm) lead length at T <sub>A</sub> = 75°C	I <sub>o</sub>			2.0	А
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I <sub>FSM</sub>			50	А
	$V_{R} = V_{RRM} T_{A} = 25^{\circ}C$				5.0	uA
Reverse current	$V_{R} = V_{RRM} T_{A} = 125^{\circ}C$	R			100	
Thermal resistance	Junction to ambient	R <sub>eja</sub>		40		°C/W
Diode junction capacitance	f=1MHz and applied 4V DC reverse voltage	C		40		pF
Storage temperature		T <sub>stg</sub>	-55		+150	°C

Symbol	Marking code	Max. repetitive peak reverse voltage V <sub>RRM</sub> (V)	Max. RMS voltage V <sub>RMS</sub> (V)	Max. DC blocking voltage V <sub>R</sub> (V)	Max. forward voltage @2A, $T_A = 25^{\circ}C$ $V_F(V)$	Max. reverse recovery time(1) T <sub>rr</sub> (ns)	Operating temperature T <sub>J</sub> (°C)	
FR2005	FR2005	50	35	50		150	-55 ~ +150	
FR201	FR201	100	70	100				
FR202	FR202	200	140	200				
FR204	FR204	400	280	400	1.30			
FR206	FR206	600	420	600		250		
FR208	FR208	800	560	800	]	500		
FR210	FR210	1000	700	1000		500		
Note : 1. I <sub>F</sub> = 0.5A,	I <sub>R</sub> = 1.0A , I <sub>RR</sub> = 0.25A		-					



### 2A Leaded Type Fast Rectifiers





## **FR2005 THRU FR210**

#### 2A Leaded Type Fast Rectifiers

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