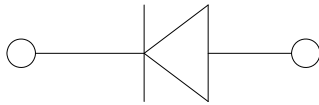
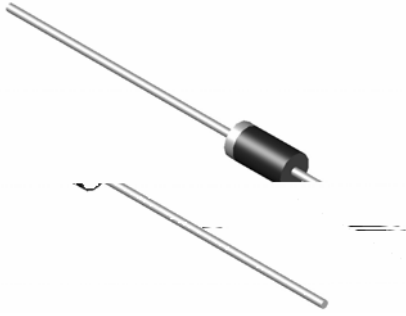




## Fast Recovery Rectifier



## Features

- High efficiency
- High current capability
- High reliability
- High surge current capability
- Low power loss
- Glass passivated chip junction
- Solder dip 275 °C max. 7 s, per JESD 22-B106

## Mechanical Data

- Package: DO-204AC(DO-15)
- Molding compound meets UL 94 V-0

					FR203G	FR204G	FR205G	FR206G	FR207G
Device marking code			FR201G	FR202G	FR203G	FR204G	FR205G	FR206G	FR207G
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	$V_{RMS}$	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	$V_{DC}$	V	50	100	200	400	600	800	1000
Average Forward Current @60Hz sine wave, Resistance load, $T_a=75$	$I_{F(AV)}$	A	2.0						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, $T_j=25$	$I_{FSM}$	A	60						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_j=25$			120						
Current squared time @1ms t8.3 ms $T_j=25$ Rating of per diode	$I^2t$	$A^2s$	15						
Typical junction capacitance @Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	$C_j$	pF	18				13	12	
Storage Temperature	$T_{stg}$		-55 ~ +150						
Junction Temperature	$T_j$		-55 ~ +150						

Electrical Characteristics  $T_a=25$  Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	FR201G	FR202G	FR203G	FR204G	FR205G	FR206G	FR207G
Maximum instantaneous forward voltage drop per diode	$V_F$	V	$I_{FM}=2.0A$	1.3						
Maximum DC reverse current at rated DC blocking voltage per diode	$I_R$	$\mu A$	$T_j=25$	2.5						
			$T_j=125$	100						
Maximum reverse recovery time	$t_{rr}$	ns	$I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$	150			250	500		



# FR201G THRU FR207G

**Thermal Characteristics**  $T_a=25$  Unless otherwise specified

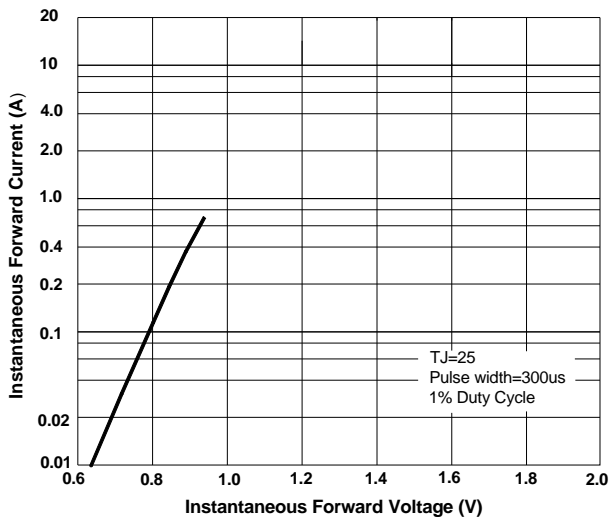
PARAMETER	SYMBOL	UNIT	FR201G	FR202G	FR203G	FR204G	FR205G	FR206G	FR207G
Typical Thermal Resistance	$R_{JA}$	/W	50						

**Ordering Information (Example)**

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
FR201G-FR207G	D1	Approximate 0.38	3000	3000	30000	Tape
FR201G-FR207G	C1	Approximate 0.38	500	500	25000	Bulk

**Characteristics (Typical)**

FIG.3: Forward Voltage M M M M





**Outline Dimensions**



## Disclaimer

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