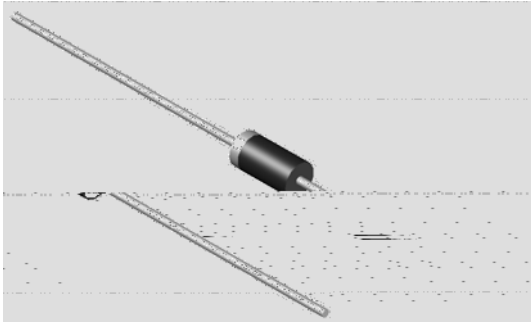




Fast Recovery Rectifier

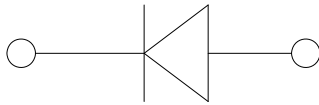


Features

- 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	μA	$T_j=25$	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

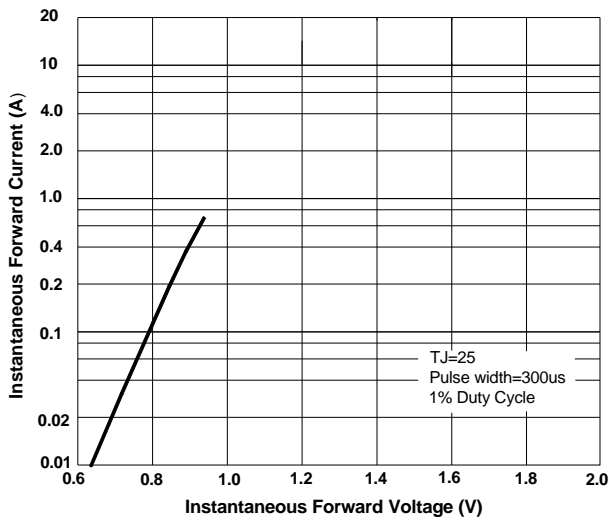
PARAMETER	SYMBOL	UNIT	FR201G	FR202G	FR203G	FR204G	FR205G	FR206G	FR207G
Typical Thermal Resistance	R_{JA}	/W	50						

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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