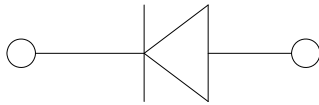
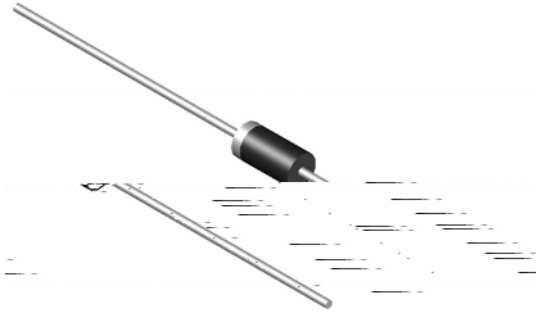




Fast Recovery Rectifier



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

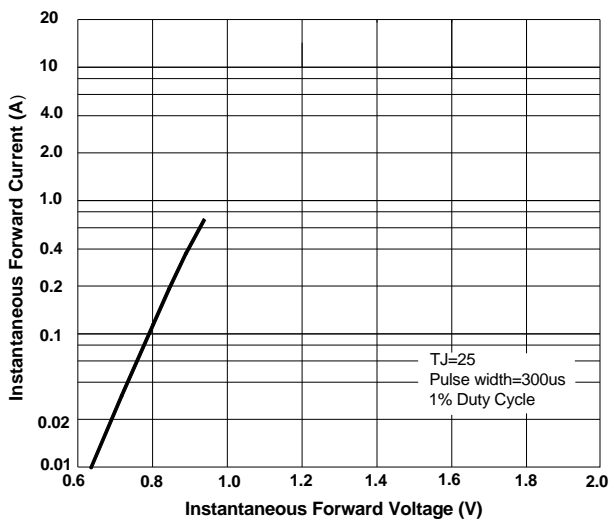
PARAMETER	SYMBOL	UNIT	FR201G	FR202G	FR203G	FR204G	FR205G	FR206G	FR207G
Typical Thermal Resistance	R_{JA}	/W	50						

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





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Outline Dimensions



Disclaimer

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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