



Super Fast Recovery Rectifier





Features

- Ultrafast reverse recovery time
- Low leakage current
- Low switching losses, high efficiency
- High forward surge capability
- Glass passivated chip junction
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

For use in high frequency rectification and freewheeling application in switching mode converters and inverters for consumer, computer and telecommunication.

Mechanical Data

 Package: DO-204AL(DO-41)
 Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

 Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102

• Polarity: Color band denotes the cathode end

■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SF11G	SF12G	SF13G	SF14G	SF15G	SF16G	SF17G	SF18G
Device marking code			SF11G	SF12G	SF13G	SF14G	SF15G	SF16G	SF17G	SF18G
Repetitive Peak Reverse Voltage	VRRM	V	50	100	150	200	300	400	500	600
Average Forward Current @60Hz sine wave, Resistance load, Ta =60°C	I _{F(AV)}	Α	1.0							
Surge(Non-repetitive)Forward Current @ 60Hz Half-sine wave,1 cycle, Ta=25°C	IFSM	А	30							
Storage Temperature	Tstg	$^{\circ}$	-55 ~+150							
Junction Temperature	Tj	$^{\circ}$	-55~+150							

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SF11G	SF12G	SF13G	SF14G	SF15G	SF16G	SF17G	SF18G
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=1.0A	0.95		1.3		1.7	•		
Maximum DC reverse current at rated DC blocking voltage per	IR	μA	uA Ta=25℃		5						
diode		,	T _a =125℃ I _F =0.5A I _R =1A	150							
Reverse Recovery time	t _{rr}	ns	I _{RR} =0.25A	35							
Typical junction capacitance	Cj	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C.	40			2	5			

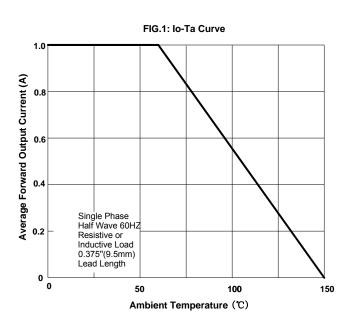
■Thermal Characteristics (T_a=25°C Unless otherwise specified)

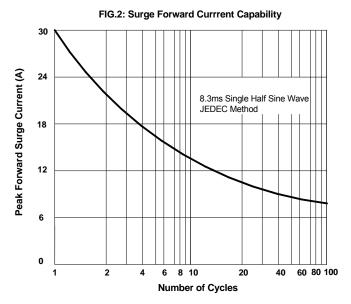
PARAMETER	SYMBOL	UNIT	SF11G	SF12G	SF13G	SF14G	SF15G	SF16G	SF17G	SF18G
Thermal Resistance	RθJ-A	°C/W	60							

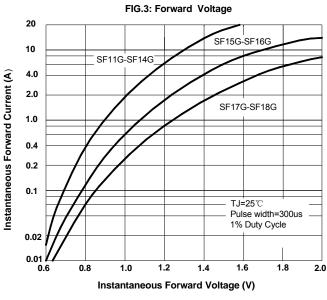
■Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SF11G~SF18G	D1	Approximate 0.30	5000	5000	50000	Таре
SF11G~SF18G	C1	Approximate 0.30	1000	1000	50000	Bulk

■ Characteristics(Typical)







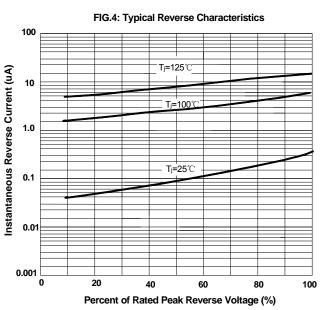
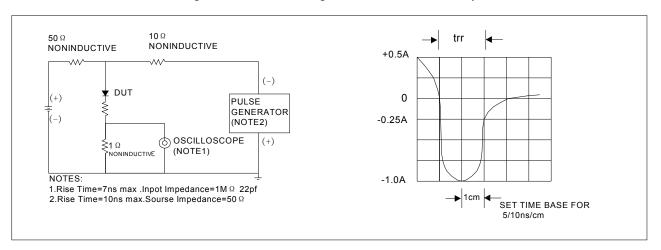
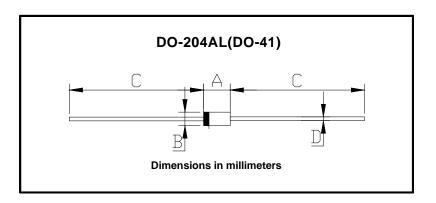




FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



■ Outline Dimensions



DO-204AL(DO-41)						
Dim	Min	Max				
Α	4.22	5.21				
В	2.03	2.72				
С	25.4	1				
D	0.69	0.86				



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