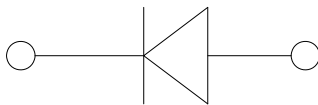
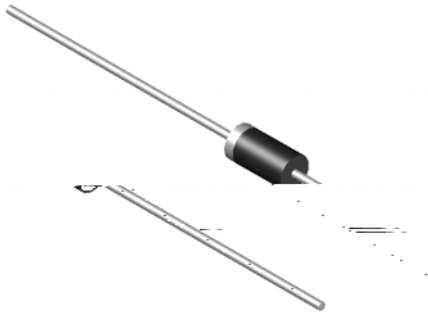


Super Fast Recovery Rectifier



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-204AC(DO-15)
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 (T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	SF1600
Device marking code			SF1600
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	V	1600
Maximum RMS Voltage	V _{RMS}	V	1120
Maximum DC blocking Voltage	V _{DC}	V	1600
Average Forward Current @60Hz sine wave, Resistance load, T _a =25	I _{F(AV)}	A	1.0
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, T _j =25	I _{FSM}	A	30
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, T _j =25			60
Current squared time @1ms≤t≤8.3ms T _j =25 Rating of per diode	I ² t	A ² s	3.735
Typical junction capacitance @Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	C _j	pF	14
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	SF1600
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =1.0A	3.4
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	75

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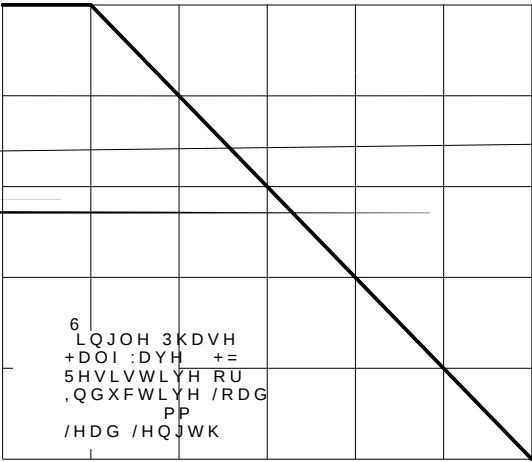
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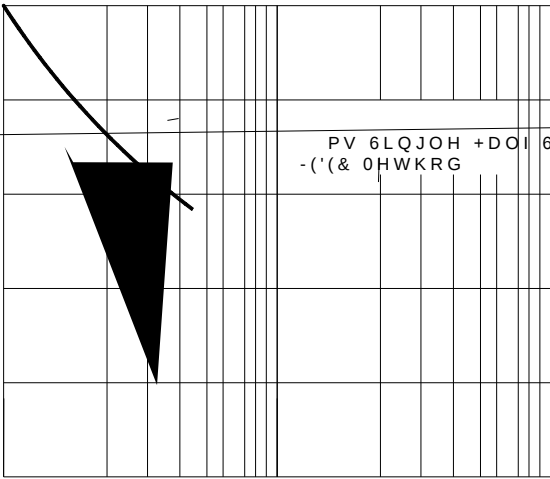
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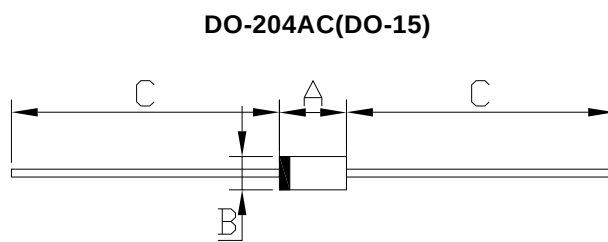
),*)RUZDUG 6XUJH &XUUHQW &DSDELOLV



1XPEHU RI &\FOHV



■ Outline Dimensions



Dimensions in millimeters

DO-204AC(DO-15)		
Dim	Min	Max
A	5.80	7.60
B	2.60	3.60
C	25.4	/
D	0.70	0.90



Disclaimer

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