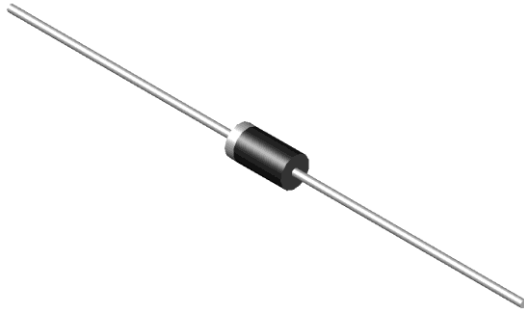


## Super Fast Recovery Rectifier

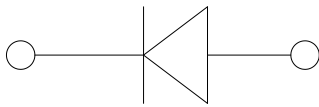


### Features

- 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 (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MUR220	MUR240	MUR260
Device marking code			MUR220	MUR240	MUR260
Repetitive Peak Reverse Voltage	$V_{RRM}$	V	200	400	600
Average Forward Current @60Hz sine wave, Resistance load, Ta =75°C	$I_{F(AV)}$	A	2.0		
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Ta=25°C	$I_{FSM}$	A	60		
Storage Temperature	$T_{stg}$	°C	-55 ~+150		
Junction Temperature	$T_j$	°C	-55~+150		

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MUR220	MUR240	MUR260
Maximum instantaneous forward voltage drop per diode	$V_F$	V	$I_{FM}=2.0A$	0.875	1.25	
Maximum DC reverse current at rated DC blocking voltage per diode	$I_R$	$\mu A$	$T_a=25^\circ C$	5		
			$T_a=100^\circ C$	150		
Reverse Recovery time	$t_r$	ns	$I_F=0.5A$ $I_R=1A$ $I_{RR}=0.25A$	25	50	
Typical junction capacitance	$C_j$	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C.	50		



# MUR220 THRU MUR260

## ■ Thermal Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MUR220	MUR240	MUR260
Thermal Resistance	R <sub>θJ-A</sub>	°C/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
MUR220~MUR260	D1	Approximate 0.38	3000	3000	30000	Tape
MUR220~MUR260	C1	Approximate 0.38	500	500	25000	Bulk

## ■ Characteristics(Typical)

FIG.1: I<sub>o</sub>-T<sub>a</sub> Curve

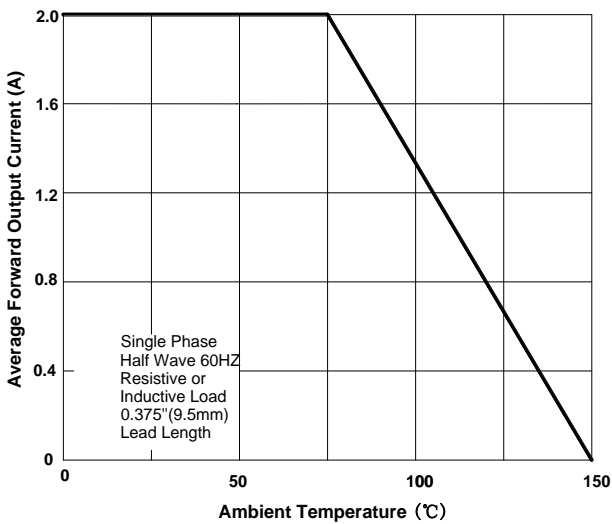


FIG.2: Forward Surge Current Capability

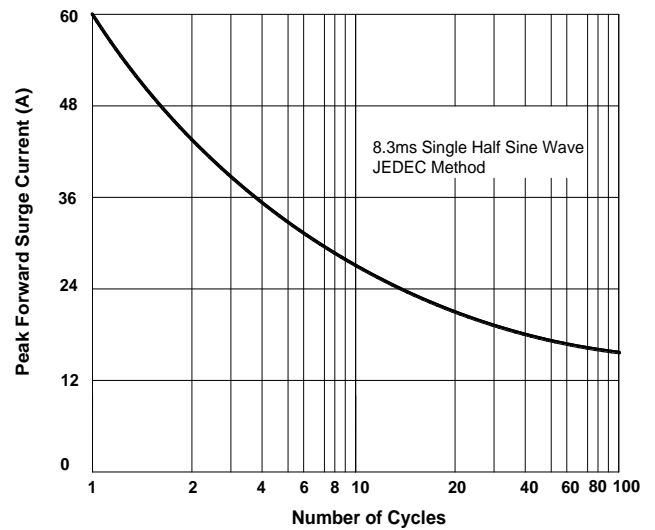


FIG.3: Forward Voltage

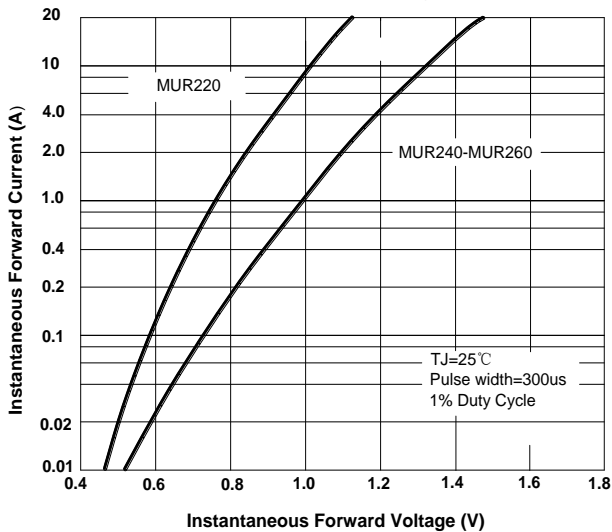
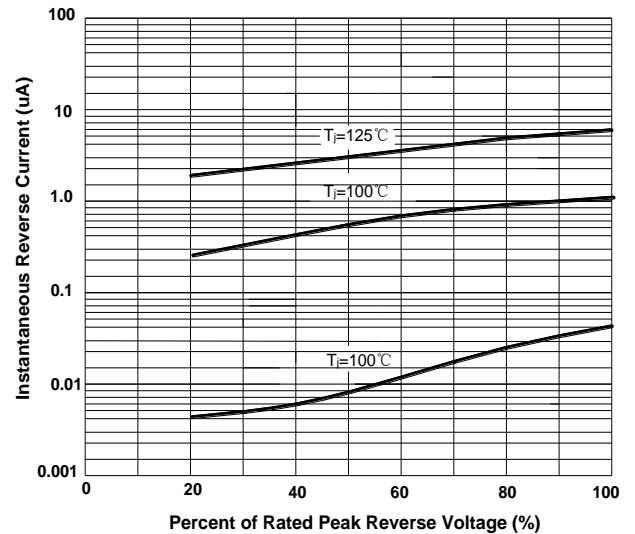


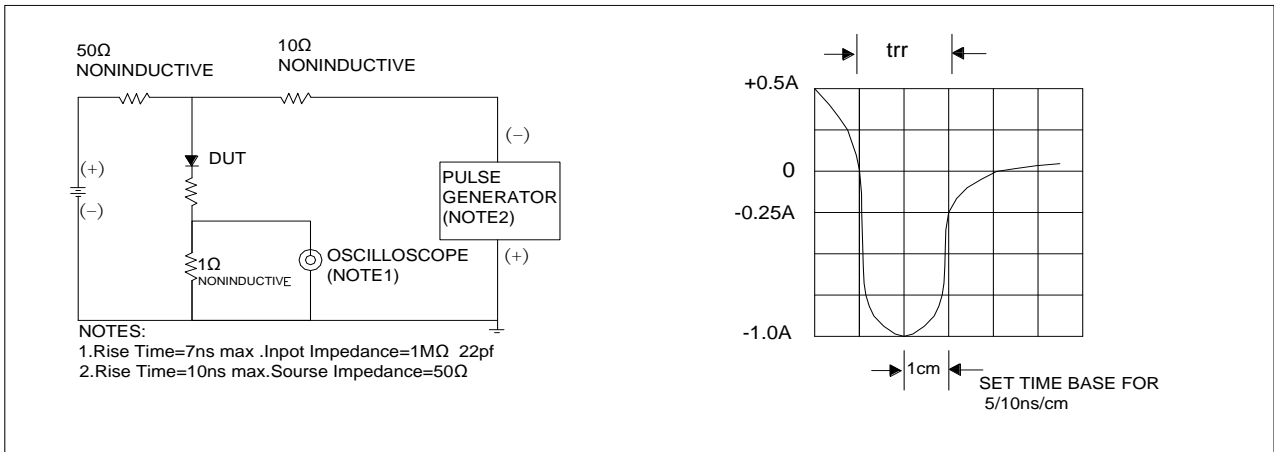
FIG.4: Typical Reverse Characteristics



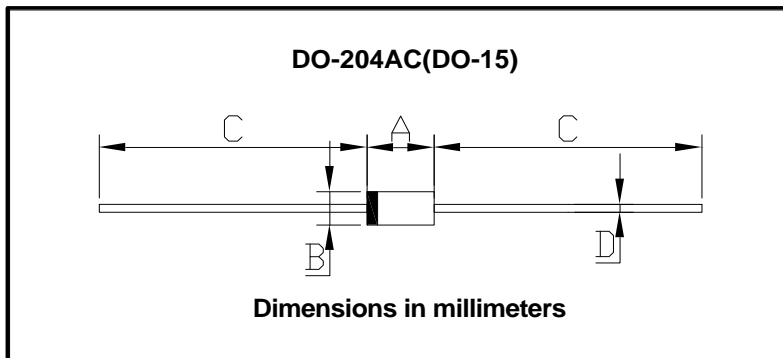


# MUR220 THRU MUR260

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



## ■ Outline Dimensions



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



## MUR220 THRU MUR260

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