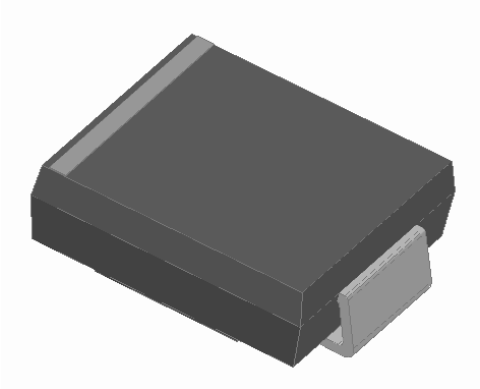
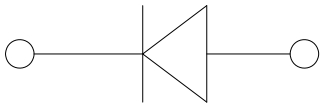
RoHS
COMPLIANT





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-214AB (SMC)

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free

- **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	MURS360
Device marking code			MURS360
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	600
Maximum RMS Voltage	V_{RMS}	V	420
Maximum DC blocking Voltage	V_{DC}	V	600
Average Rectified Output Current @60Hz sine wave, Resistance load, TL (FIG.1)	I_O	A	3.0
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25	I_{FSM}	A	100
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25			200
Current squared time @1ms≤t≤8.3ms Tj=25	I^2t	A^2s	41.5
Storage Temperature	T_{stg}		-55 ~ +150
Junction Temperature	Tj		-55 ~ +150

■Electrical Characteristics T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MURS360
Maximum instantaneous forward voltage	V_F	V	I_{FM}=3.0A	1.25
Maximum reverse recovery time	t_{rr}	ns	I_F=0.5A,I_R=1.0A, I_{rr}=0.25A	50
Maximum DC reverse current at rated DC blocking voltage	I_R	μA	Tj =25	5
			Tj =125	50
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	50

■Dynamic Characteristics

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS		Min	Typ	
Reverse Recovery Time	T_{RR}	ns	Tj=25	I_F=1A di/dt=-50A/us VRM=30V	-	48	-
			Tj=25	I_F=3A di/dt=-200A/us V_{RM}=400V	-	47	-
			Tj=125		-	71	-
Peak recovery current	I_{RRM}	A	Tj=25		-	5.9	-
			Tj=125		-	9.0	-
Reverse recovery charge	Qrr	nC	Tj=25		-	138.1	-
			Tj=125		-	319.6	-
Non-repetitive avalanche energy	E_{AS}	mJ	Tj=25	I_R=0.8 A L=15 mH	4.8	-	-

■Thermal Characteristics T_a=25 Unless otherwise specified

		UNIT	
Typical Thermal resistance	$R_{\theta J-A}$(1)	/W	50
	$R_{\theta J-L}$(1)		18
	$R_{\theta J-C}$(1)		12

FIG.3: Typical Forward Voltage

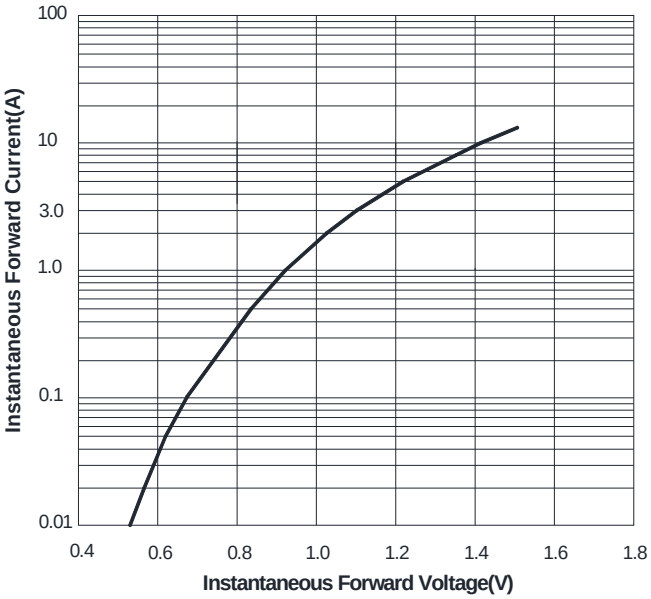


FIG.4: Typical Reverse Characteristics

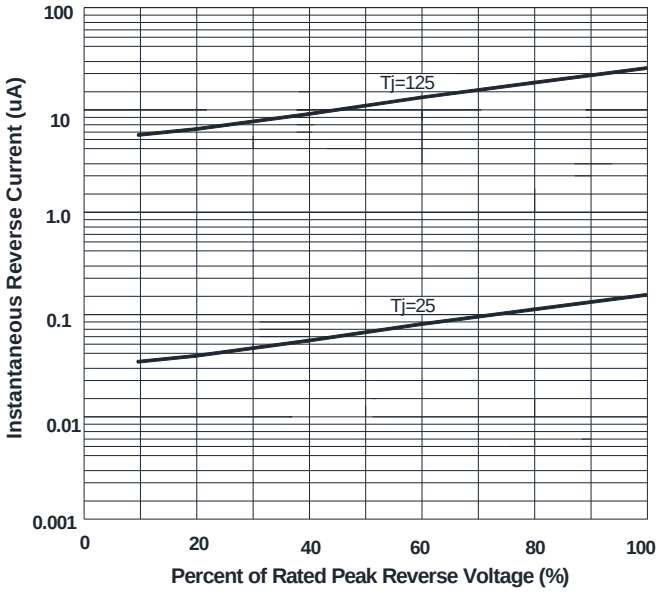
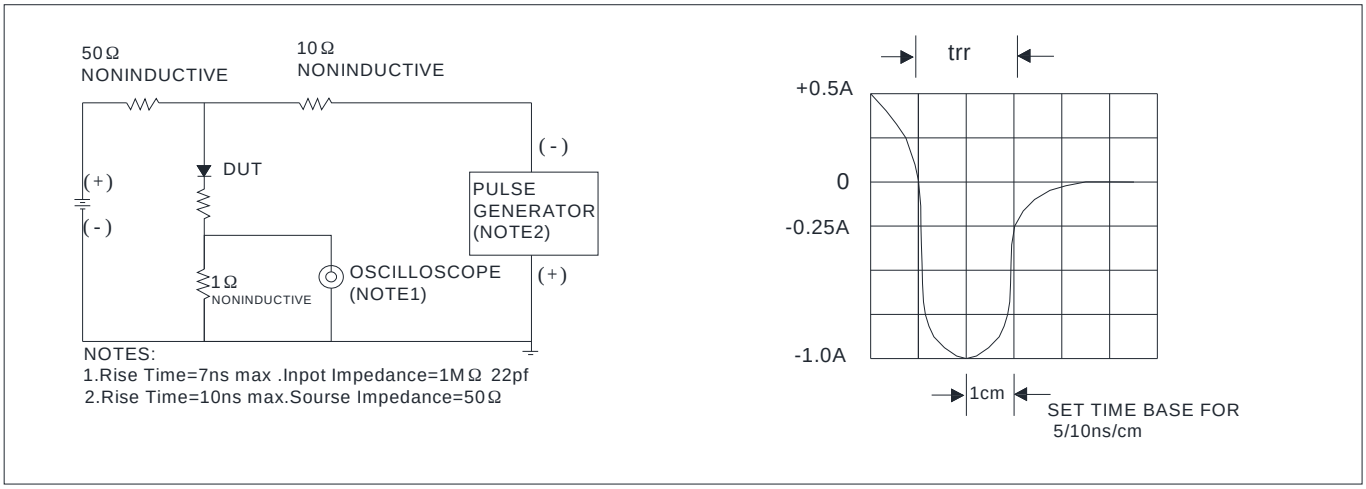
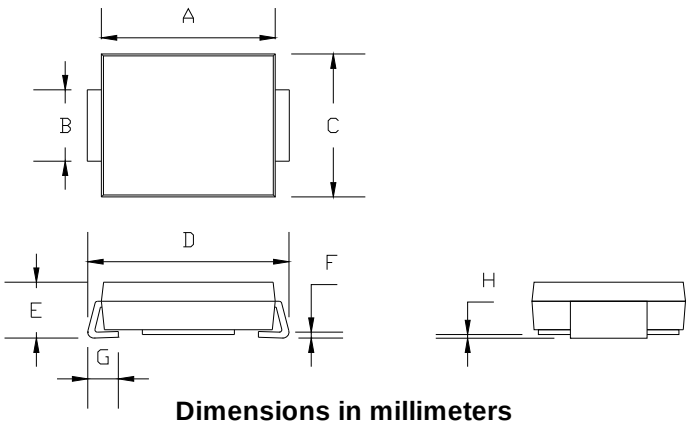


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



■ Outline Dimensions

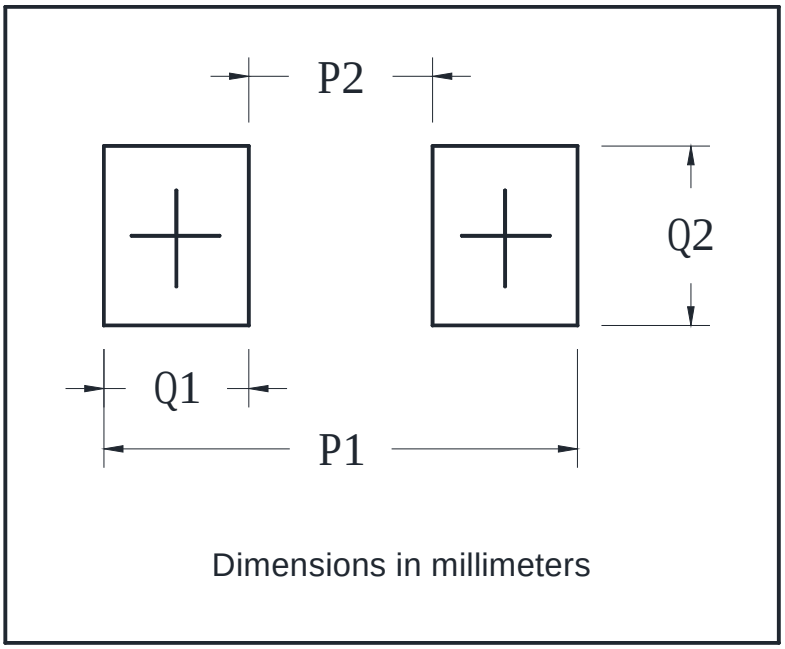
DO-214AB(SMC)



Dimensions in millimeters

DO-214AB (SMC)		
Dim	Min	Max
A	6.60	7.11
B	2.85	3.27
C	5.59	6.22
D	7.75	8.13
E	1.99	2.61
F	0.15	0.31
G	0.76	1.52
H	0.05	0.20

■ **Suggested pad layout**



DO-214AB (SMC)	
Dim	Min
P1	9.9
P2	3.84
Q1	3.03
Q2	3.82

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 with 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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