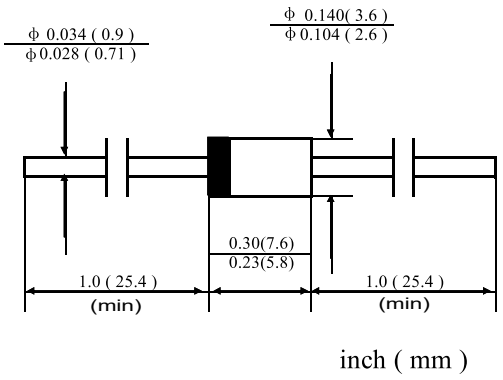
Fast Recovery Rectifiers

DO-15



inch (mm)

Outline Dimensions and Mark

Features

- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with Freon, Alcohol,Isopropanol and similar solvents

Mechanical Data

- Case:JEDEC DO--15,molded plastic
- Terminals: Axial lead ,solderable per MIL- STD-202,Method 208
- Polarity: Color band denotes cathode
- Weight: 0.014ounces,0.39 grams
- Mounting position: Any

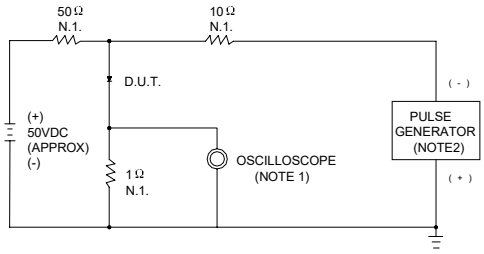
■Maximum Ratings (T_a=25℃ Unless otherwise specified)

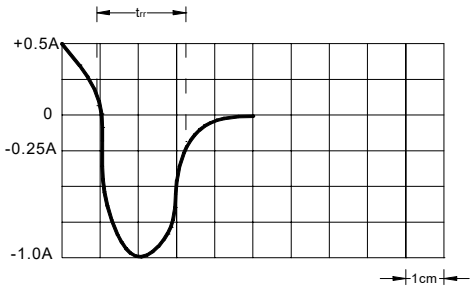
Item	Symbol	Unit	Conditions	BYV95C
Repetitive Peak Reverse Voltage	V_{RRM}			600
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, Ta=50℃	1.5
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave, 1 cycle, Ta=25℃	35
Junction Temperature	T_J	℃		-55~+125
Storage Temperature	T_{STG}	℃		-55 ~ +150

■Electrical Characteristics (T_a=25℃ Unless otherwise specified)

Item	Symbol	Unit	Test Condition		BYV95C
Peak Forward Voltage	V_{FM}	V	I_{FM}=1.5A		1.6
Peak Reverse Current	I_{RRM1}	μA	$V_{RM}=V_{RRM}$	Ta=25℃	5
	I_{RRM2}			Ta=100℃	150
Reverse Recovery time	t_{rr}	ns	I_F=0.5A I_R=1A I_{RR}=0.25A		250
Thermal Resistance(Typical)	$R_{\theta J-A}$	℃/W	Between junction and ambient		25
	$R_{\theta J-L}$		Between junction and lead		20

FIG.1 – REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





NOTES:1.RISE TIME =7ns MAX. INPUT IMPEDANCE=1MΩ.22pF
2.RISE TIME=10ns MAX. SOURCE IMPEDANCE=50Ω

SET TIME BASE FOR 50/100 ns /cm

FIG.2 –FORWARD DERATING CURVE

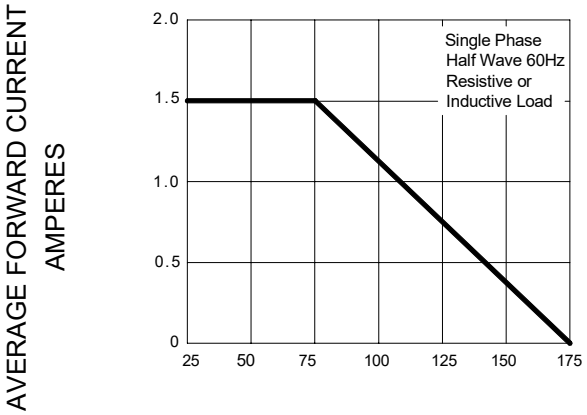


FIG.3 –PEAK FORWARD SURGE CURRENT

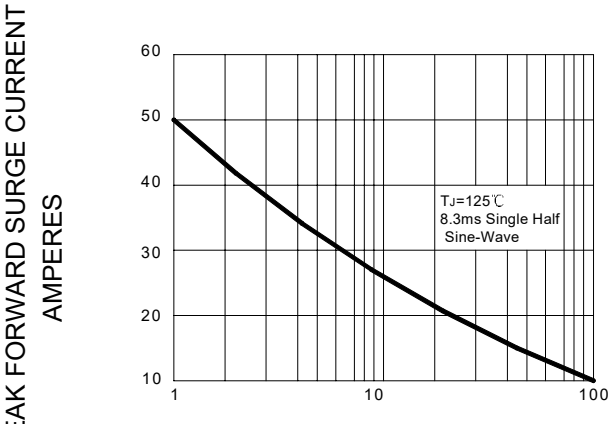


FIG.4–TYPICAL FORWARD CHARACTERISTIC

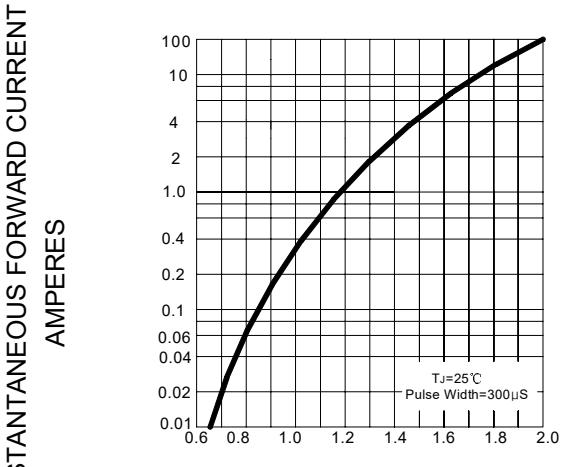


FIG.5– TYPICAL JUNCTION CAPACITANCE

