

1N60P

SCHOTTKY BARRIES SWITCHING DIODES

VOLTAGE	45 Volt	CURRENT	0.05 Ampere
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FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Low Reverse Recovery Time
- Low Reverse Capacitance
- Lead free in compliance with EU RoHS 2011/65/EU directive

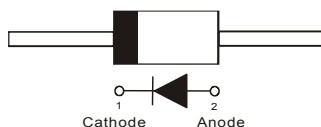
MECHANICAL DATA

- Case: Molded Glass DO-35
- Terminals: Solderable per MIL-STD-750, Method 2026
- Packing information

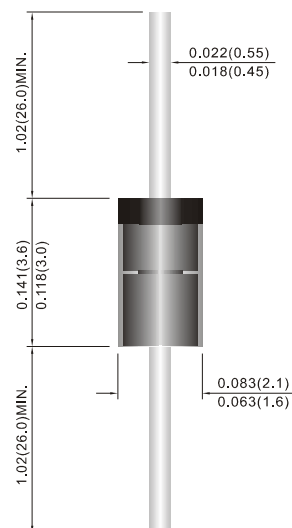
B/P - 2K per Bulk box

T/R - 10K per 15" plastic Reel

T/B - 5K per horiz. tape & Ammo box



DO-35	Unit : inch(mm)
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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_J = 25°C unless otherwise noted)

PARAMETER	SYMBOL	1N60P	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	45	V
Forward Continuous Current	I _{F(AV)}	50	mA
Peak Forward Surge Current, t=1s	I _{FSM}	500	mA
Maximum lead temperature for soldering during 10s at 4mm from case	T _L	230	°C
Maximum Forward Voltage I _F = 1mA I _F = 200mA	V _F	0.5 1.0	V
Maximum Reverse Current VR=15V	I _R	1.0	μA
Typical Junction Capacitance	C _J	6	pF
Typical Reverse Recovery I _F =I _R =10mA t _{rr} =1mA, R _L =100Ω	t _{rr}	1	ns
Typical Thermal Resistance	R _{θJA}	400	°C / W
Detection Efficiency (See FIG. 4) V _I = 3V f=30MHz C _L =10PF R _L =3.8KΩ	η	60(TYP.)	%
Storage and Junction Temperature Range	T _J , T _{STG}	-55 to +150	°C

NOTE :

1. C_J at V_R=0, f=1MHZ

2. From I_F=50mA to I_R=200mA, R_L=100Ω

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RATING AND CHARACTERISTIC CURVES

FIG.1 – FORWARD CURRENT VERSUS FORWARD VOLTAGE (TYPICAL VALUES)

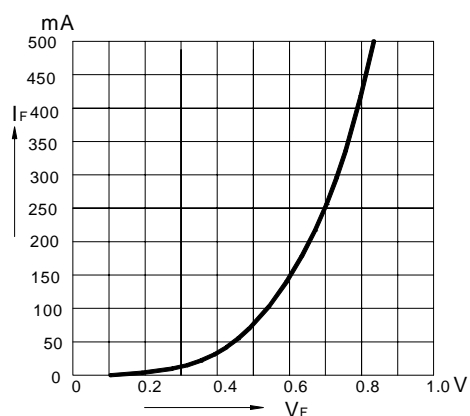


FIG.2 – REVERSE CURRENT VERSUS CONTINUOUS REVERSE VOLTAGE

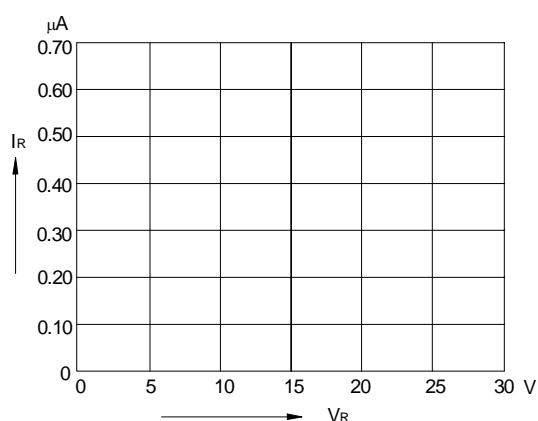


FIG.3 – JUNCTION CAPACITANCE VERSUS CONTINUOUS REVERSE APPLIED VOLTAGE

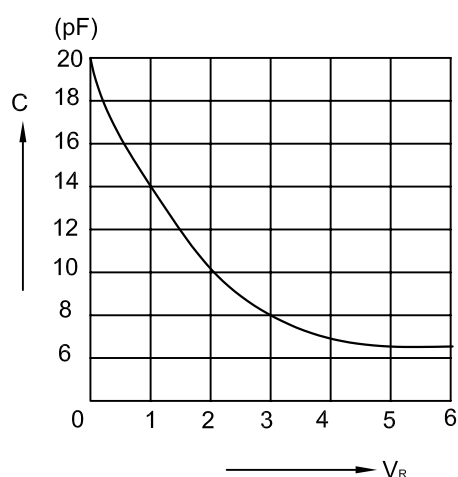
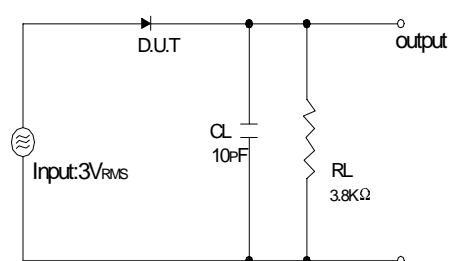


FIG.4 – DETECTION EFFICIENCY MEASUREMENT CIRCUIT



1N60P

Part No_packing code_Version

1N60P_AX_10001

1N60P_AY_10001

1N60P_R2_10001

1N60P_B0_10001

For example :

RB500V-40 **R2** **00001**

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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