DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

TECHNICAL SPECIFICATIONS OF SMALL SINGAL SCHOTTKY DIODES

FEATURES

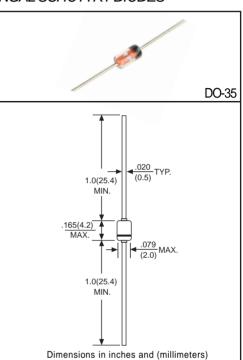
- * Metal silicon junction, majority carrier conduction.
- * High current capability, low forward voltage drop.
- * Extremely low reverse current IR
- * Ultra speed switching characteristics
- * Small temperature coefficient of forward characteristics
- * Satisfactory Wave detection efficiency
- * For use in RECORDER, TV, RADIO, TELEPHONE as detectors, super high speed switching circuits, small current rectifier

MECHANICAL DATA

- * Case: DO-35 glass case
- * Polarity: color band denotes cathode end
- * Weight: 0.13 grams approx.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.



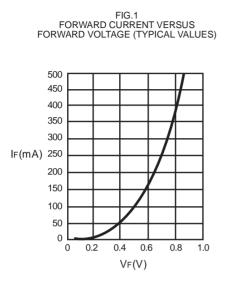
ABSOLUTE RATINGS(LIMITING VALUES)

PARAMETERS		SYMBOL	VALUE	UNITS	
Repetitive Peak Reverse Voltage		Vrrm	40	Volts	
Forward Continuous Current	T _A =25 [°] C	lf	50	mA	
Peak Forward Surge Current(t=1S)		IFSM	400	mA	
Storage and junction Temperature Range		Tstg/Tj	-55 to +125	°C	
Maximum Lead Temperature for Soldering during 10S at 4mm from Case		TL	230	°C	

ELECTRICAL CHARACTERISTICS

PARAMETERS		SYMBOL	VALUE		
	TEST CONDITIONS		TYP.	MAX.	UNITS
Forward Voltage	l⊧=1mA	· VF	0.26	0.5	Volts
	l⊧=200mA		0.70	1.0	
Reverse Current	V _R =15V	lR	5.0	10	μΑ
Junction Capacitance	VR=10V f=1MHz	CJ	10		pF
Detection Efficiency	$V_{l}\!=\!3V$ f=30MHz CL=10pF RL=3.8K Ω	η	60		%
Reverse Recovey time	l==lR=1mA Irr=1mA Rc=100Ω	trr		1	ns
Junction Ambient Thermal Resistance		RθJA	400		°C/W

RATING AND CHARACTERISTIC CURVES (1N60P)



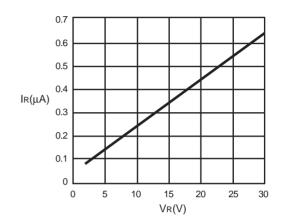


FIG.2

REVERSE CURRENT VERSUS

CONTINUOUS REVERSE VOLTAGE

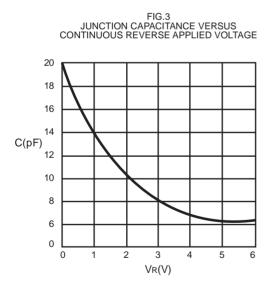
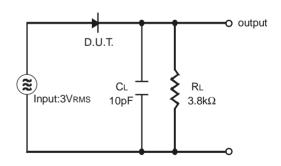


FIG.4 DETECTION EFFICIENCY MEASUREMENT CIRCUIT



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