



SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE 20 Volts CURRENT 200 mA

FEATURES

Very Low VF: 0.37V (Typ) at IF = 1mA
 Low Capacitance: 2.5 pF (Max) at VR=0V

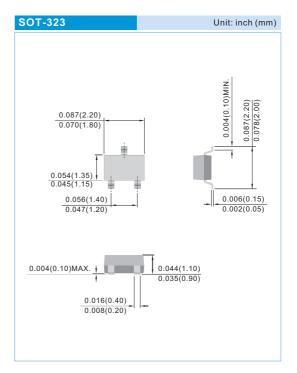
- · Extremely Fast Switching Speed
- · Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

Case: SOT-323, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.005 gram

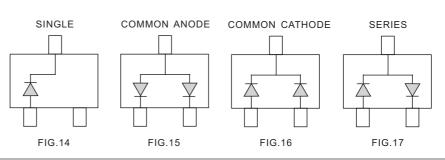


MAXIMUM RATINGS AND ELECTRICAL AHARACTERISTICS

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%

PARAMETER	SYMBOL	MMBD717W	MMBD717AW	MMBD717CW	MMBD717SW	UNITS
Marking Code	-	P70	P72	P73	P74	-
Maximum Reverse Voltage	V _R	20				V
Peak Reverse Voltage	V _{RRM}	20				V
Maximum Forward Current	I _F	0.2				Α
Power Dissipation (Note 1)	Ртот	200				mW
Thermal Resistance , Junction to Ambient	R _{eJA}	556				
Operating Junction and Storage Temperature Range	ТЈ,Тѕтс	-55 to 150			°C	
Circuit Figure	-	SINGLE	COMMON ANODE	COMMON CATHODE	SERIES	-

Note: 1. FR-4 Board = $70 \times 60 \times 1$ mm.







ELECTRICAL CHARACTERISTICS (each diode) (T₁ = 25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage	V(BR)	I R=10 μA	20			V
Reverse Leakage Current	IR	V _R =10 V			1.0	μА
Forward Voltage	VF	I ==1.0mA	-		0.37	V
Total Capacitance	Сл	V _R =0V, f=1.0MHz			2.5	pF

ELECTRICAL CHARACTERISTICS CURVE

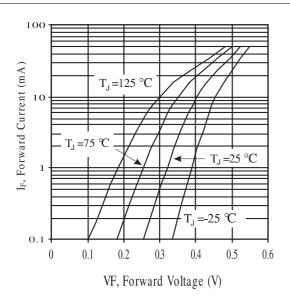


Figure 1. Typical Forward Voltage

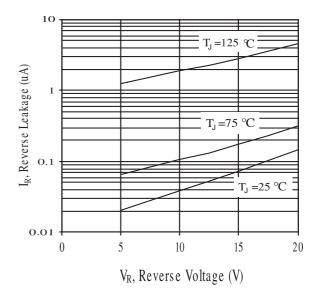


Figure 2. Typical Reverse Current

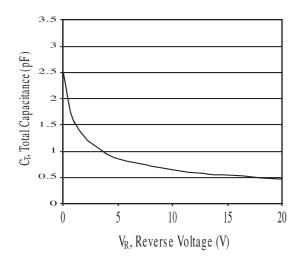


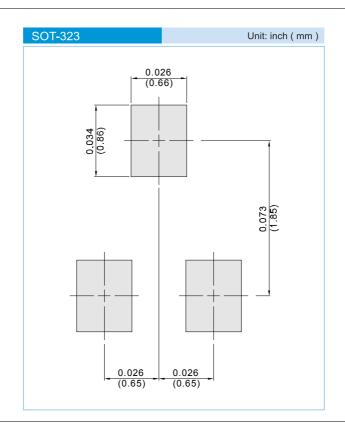
Figure 3. Typical Total Capacitance

REV.0.1-FEB.27.2009 PAGE . 2





MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

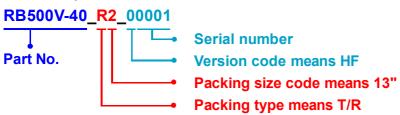




Part No_packing code_Version

MMBD717W_R1_00001 MMBD717W_R2_00001

For example:



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)	Α	N/A	0	HF	0	serial number	
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number	
Bulk Packing (B/P)	В	13"	2				
Tube Packing (T/P)	Т	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				

REV.0.1-FEB.27.2009 PAGE . 4





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REV.0.1-FEB.27.2009 PAGE . 5