

### SURFACE MOUNT SCHOTTKY DIODES

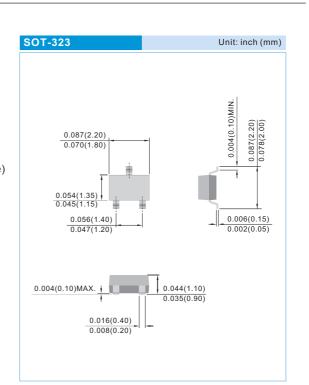
VOLTAGE 20 Volts CURRENT

#### 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



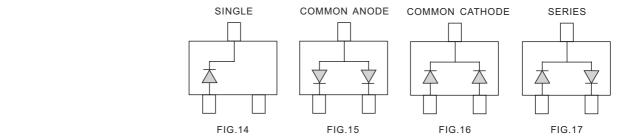
#### MAXIMUM RATINGS AND ELECTRICAL AHARACTERISTICS

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%

200 mA

PARAMETER	SYMBOL	MMBD717W	MMBD717AW	MMBD717CW	MMBD717SW	UNITS
Marking Code	-	P70	P72	P73	P74	-
Maximum Reverse Voltage	V <sub>R</sub>	20				
Peak Reverse Voltage	V <sub>RRM</sub>	20				
Maximum Forward Current	l <sub>F</sub>	0.2				
Power Dissipation (Note 1)	P <sub>TOT</sub>	200				mW
Thermal Resistance , Junction to Ambient	R <sub>eJA</sub>	556				
Operating Junction and Storage Temperature Range	Tj,Tstg	-55 to 150			°C	
Circuit Figure	-	SINGLE	COMMON ANODE	COMMON CATHODE	SERIES	-

Note : 1. FR-4 Board = 70 x 60 x 1mm.

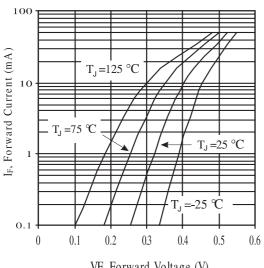




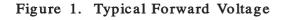
#### ELECTRICAL CHARACTERISTICS (each diode) (T, = 25°C unless otherwise noted)

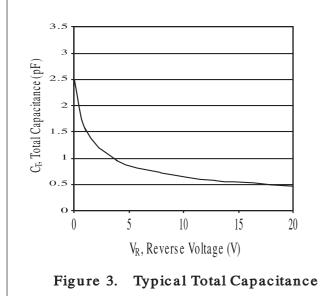
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage	V(BR)	Ι <sub>R</sub> =10 μΑ	20			V
Reverse Leakage Current	l r	VR=10 V			1.0	μA
Forward Voltage	VF	IF=1.0mA			0.37	V
Total Capacitance	CJ	VR=0V, f=1.0MHz			2.5	pF

#### **ELECTRICAL CHARACTERISTICS CURVE**



VF, Forward Voltage (V)





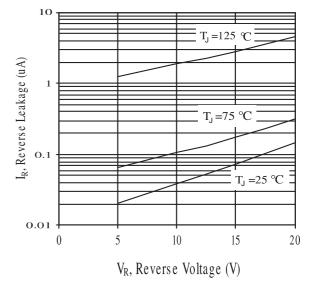
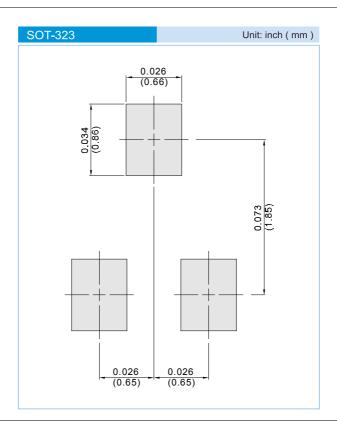


Figure 2. Typical Reverse Current



#### 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 :

## RB500V-40\_R2\_00001



Packing Code XX				Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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				





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