



#### SURFACE MOUNT RECTIFIER

VOLTAGE 200 Volts CURRENT 2 Amperes

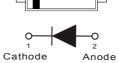
#### **FEATURES**

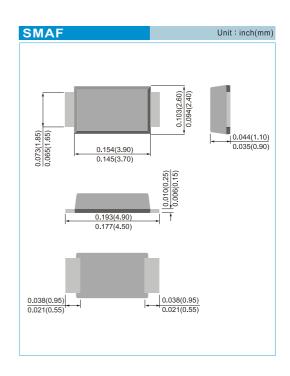
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · For surface mounted applications
- Glass passivated junction
- · Easy pick and place
- High temperature metallurgically bonden-no compression contacts as found in other diode-constructed rectifiers
- Ultra thin profile package for space constrained utilization
- · Package suitable for automated handling
- Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

#### **MECHANICAL DATA**

- · Case: Epoxy molded
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Approx. Weight: 0.0011 ounces, 0.0328 grams
- · Polarity: Color band denotes cathode end







#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER		SYMBOL	EST1DF	UNITS
Recurrent Peak Reverse Voltage			200	V
RMS Voltage			140	٧
DC Blocking Voltage			200	V
Average Forward Current			2	Α
Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load(JEDEC method)			50	А
Forward Voltage at 2.0A		V <sub>F typ</sub>	0.95	V
rolward voltage at 2.0A		V <sub>F max</sub>	1.05	V
DC Reverse Current at Rated DC Blocking Voltage	T <sub>J</sub> =25°C	I <sub>R</sub>	1	μА
Reverse Recovery Time (Note 3)		t <sub>rr</sub>	16	ns
Typical Junction capacitance	VR=4V,1MHz	C <sub>J</sub>	30	pF
Typical Thermal Resistance ,Junction to Lead (Note 1)  Junction to Ambient (Note 2)			25 150	°C / W
Operating Junction Temperature and Storage Te	emperature Range	$T_J, T_{STG}$	-55 to +150	°C

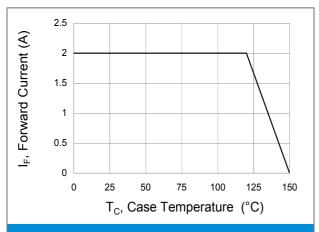
#### NOTES:

- ${\rm 1.Mounted\ on\ an\ FR4\ PCB,\ single-sided\ copper,\ with\ 100cm^2copper\ pad\ area.}$
- 2. Mounted on an FR4 PCB, single-sided copper, mini pad.
- 3. Reverse Recovery Test Conditions:  $I_F$ =0.5A,  $I_R$ =1.0A, Recover to 0.25A.





#### **RATING AND CHARACTERISTIC CURVES**



**Fig.1 Forward Current Derating Curve** 

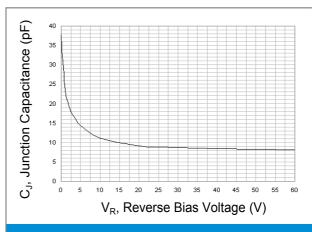


Fig.2 Typical Junction Capacitance

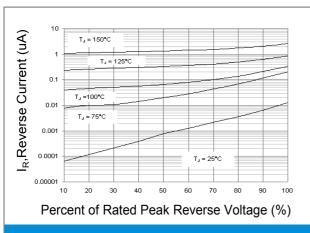


Fig.3 Typical Reverse Characteristics

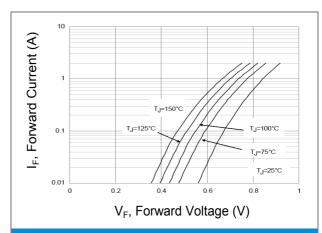
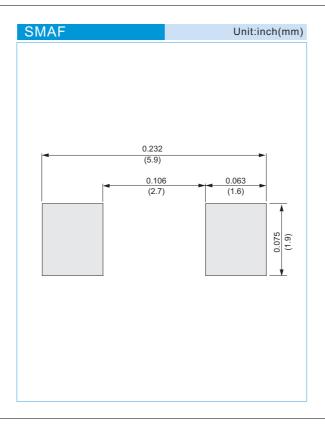


Fig.4 Typical Forward Characteristics





#### **MOUNTING PAD LAYOUT**



#### **ORDER INFORMATION**

· Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





### Part No\_packing code\_Version

EST1DF\_R1\_00001 EST1DF\_R2\_00001

### For example:



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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