/ Descriptions

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Surface Mount Schottky Barrier Rectifier, Reverse Voltage 45 V, Forward Current 5.0A,SMAF thin package.

/ Features

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Low power loss, high efficiency, High forward surge current capability, For use in low voltage, high frequency inverters, and polarity protection applications, For surface mounted applications. Halogen free product.

/ Applications

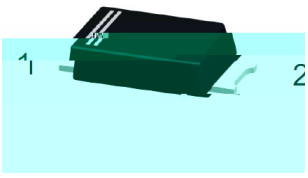
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General purpose.

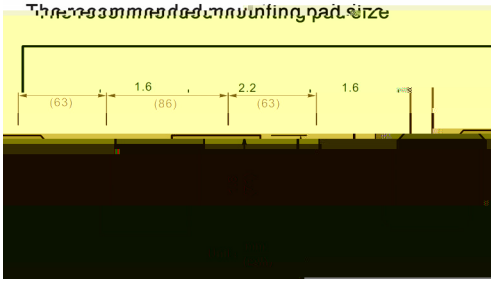
/ Equivalent Circuit



/ Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode



/ Marking

ŏ м ヿ ب ˝ See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

v Ѽ Parameter	ϒ N Symbol	Ѽ Ө Rating	D Ӌ Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	45	V
Maximum RMS voltage	V_{RMS}	32	V
Maximum DC Blocking Voltage	V_{DC}	45	V
Maximum Average Forward Rectified Current	$I_{F\ AV}$	5.0	A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	150	A
Typical Junction Capacitance[1)]	C_j	400	pF
Typical Thermal Resistance[2)]	$R_{\theta JA}$	60	/W
Operating Junction Temperature Range	T_j	-55~+150	
Storage Temperature Range	T_{stg}	-55~+150	

Note:

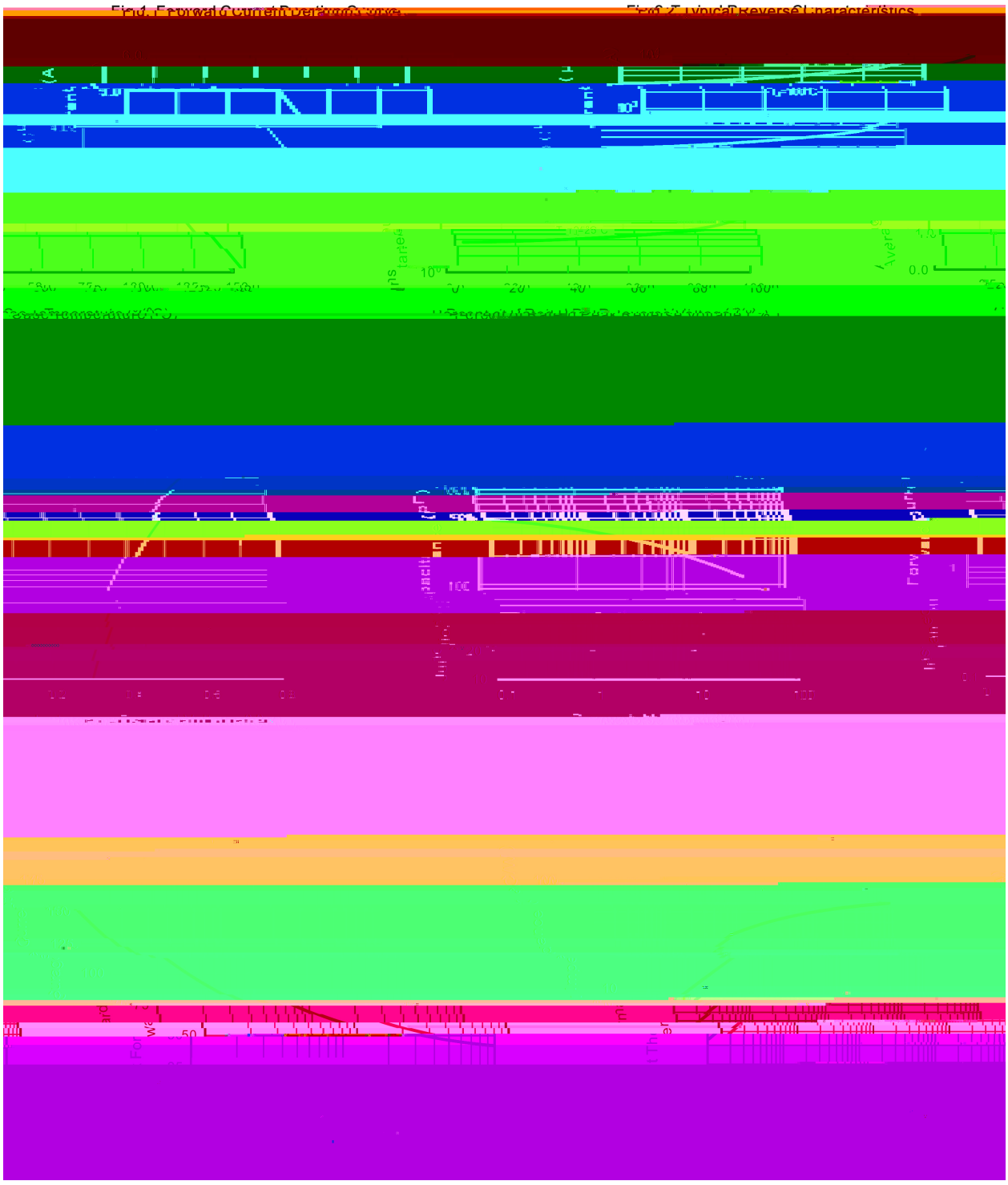
1 ζ Measured at 1MHz and applied reverse voltage of 4V D.C

2 ζ P.C.B. mounted with 2.0 X2.0" (5 X 5 cm) copper pad areas.

/ Electrical Characteristics(Ta=25)

v Ѽ Parameter	ϒ N Symbol	╨ ⁝ ┤ Ꞇ Test Conditions	Rating	D Ӌ Unit
Max Instantaneous Forward Voltage	V_F	I_F=5.0A	0.55	V
Maximum DC Reverse Current at Rated DC Reverse Voltage	I_R	T_j=25	1	mA
		T_j=100	50	

/ Electrical Characteristic Curve

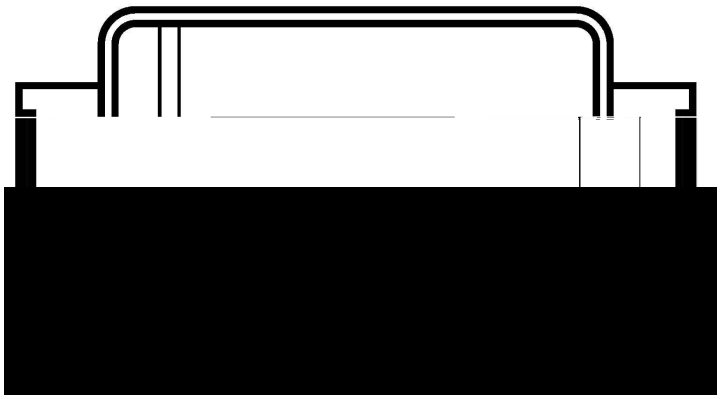


/ Marking Instructions

Marking



/ Marking Instructions



( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)