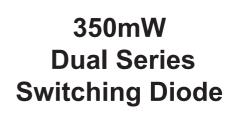


Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- Low Current Leakage
- Small Outline Surface Mount Package
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)



Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 357°C/W Junction To Ambient

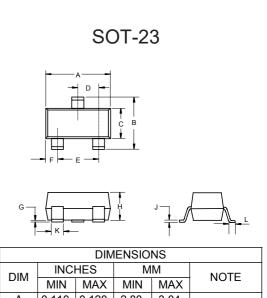
MCC Part Number	Device Marking
BAV99HE3	A7

Parameter		Symbol	Value	
DC Blocking Voltage		V _R	100V	
Average Rectified Output Current		lo	215mA	
Repetitive Peak Forward Current		I _{FRM}	500mA	
Power Dissipation		P _D	350mW	
Peak Forward Surge Current	t=1s	1	1A	
	t=1µs	I _{FSM}	4A	

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

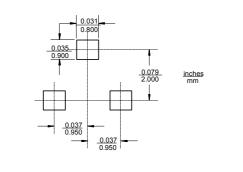
Internal Structure





DIVIENSIONS					
DIM	INCHES		MM		NOTE
Divi	MIN	MAX	MIN	MAX	NOTE
A	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V _{BR}	Ι _R =100μΑ	100			V
	N/	I _F =1mA			0.715	V
		I _F =10mA			0.855	V
Forward Voltage	V _F	I _F =50mA			1	V
		I _F =150mA			1.25	V
Reverse Current I _R	V _R =75V, T _J =25°C			2.5	μA	
	I _R	V _R =75V, T _J =150°C			50	μA
	V _R =25V, T _J =150°C			30	μA	
Typical Junction Capacitance	CJ	Measured at 1.0MHz, V _R =0V		2		pF
Reverse Recovery Time	t _{rr}	$I_{F}=I_{R}=10\text{mA},$ $I_{rr}=0.1\text{x}I_{R}, R_{L}=100\Omega$			4	ns



Curve Characteristics

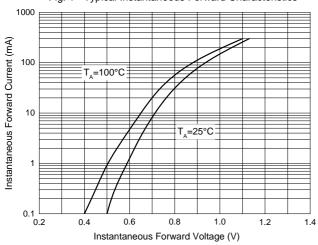
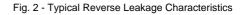


Fig. 1 - Typical Instantaneous Forward Characteristics



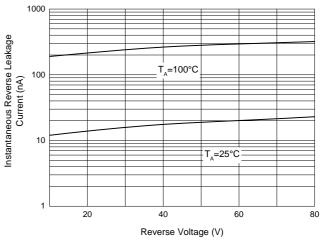
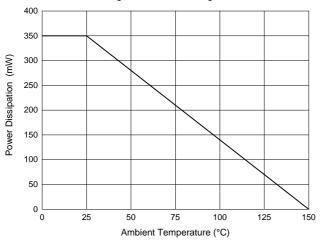


Fig. 3 - Power Derating Curve





Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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