

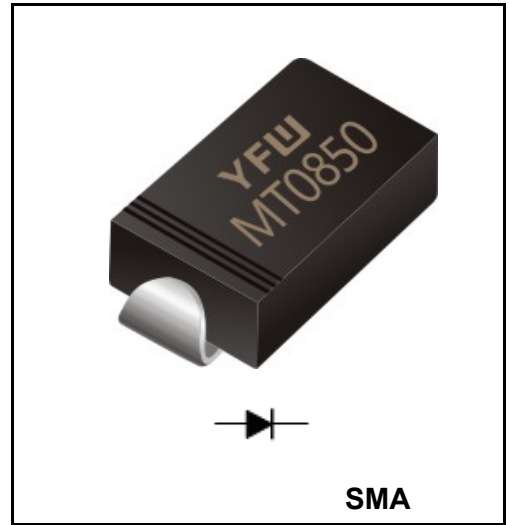
High voltage surface mount diodes

Reverse Voltage – 8kV

Forward Current –50mA

FEATURES

- ◆High speed switching
- ◆High Current
- ◆High surge resitivity for CRT discharge
- ◆High reliability design
- ◆High Voltage



Maximum Ratings and Characteristics

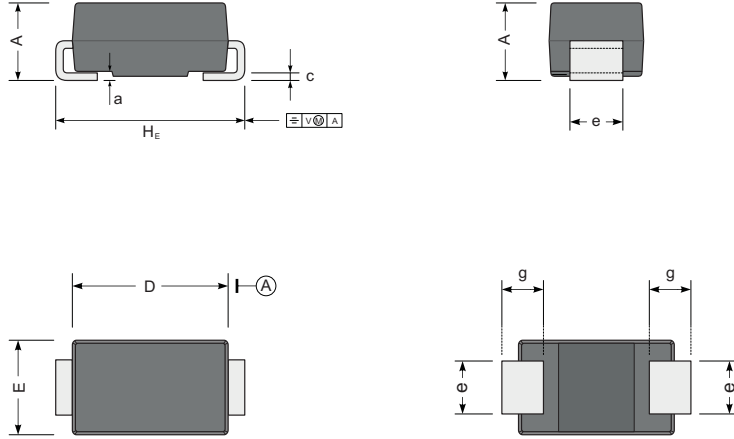
- ◆Absolute Maximum Ratings
- ◆Terminals: Pure tin plated leads, solderable per J-STD-002and JESD22-B102, E3 suffix for consumer grade, meet JESD201class 1A whisker test.
- ◆Polarity: Color band denotes cathode end

Maximum rating (Ta=25°C unless otherwise noted)

Parameter		Symbol	MT0850	Unit
Repetitive peak reverse voltage		V_{RRM}	8	KV
Average forward current	60Hz half-sine wave, Resistance load, Ta=25°C	$I_{F(AV)}$	50	mA
Surge(Non-repetitive)forward current	60Hz half-sine wave, 1cycle, Ta=25°C	I_{FSM}	10	A
Peak forward voltage	$I_{FM}=10mA$	V_{FM}	15	V
Peak reverse current $V_{RM}=V_{RRM}$	Ta=25°C	I_{RRM}	0.1	μA
	Ta=100°C		10	
Reverse recovery time	$I_F=2mA, I_{RM}=4mA$	T_{rr}	0.08	uS
Operating ambient temperature		T_a	-40 ~ +150	°C
Storage Temperature Range		T_{stg}	-40 ~ +150	°C
Virtual junction temperature		$T_{(vj)}$	150	°C

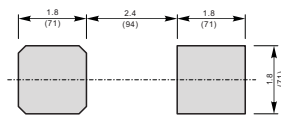
Package outline dimensions

Plastic surface mounted package; 2 leads



UNIT		A	D	E	H _E	c	e	g	a
mm	max	2.42	4.5	2.80	5.2	0.31	1.6	1.5	0.3
	min	1.98	4.0	2.54	4.7	0.15	1.3	0.9	
mil	max	96	181	110	205	12	63	59	12
	min	78	157	100	185	6	51	35	

The recommended mounting pad size



Unit: $\frac{\text{mm}}{\text{(mil)}}$

Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
SMA	BOX	5000	EIA-481-1