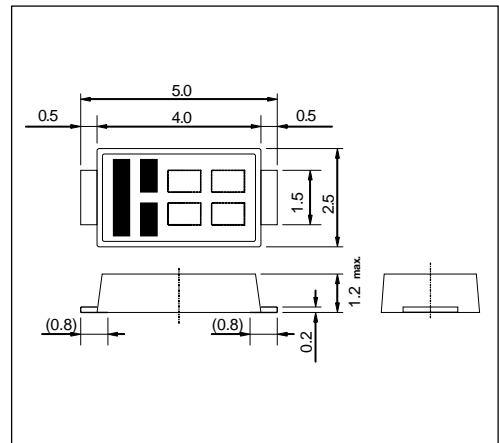


# SD863-04 (40V / 3.0A )

## SCHOTTKY BARRIER DIODE

### Outline drawings, mm



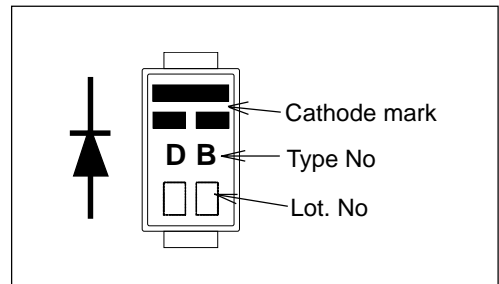
### Features

- Surface-mount device
- Low  $V_F$
- Super high speed switching
- High reliability by planer design

### Applications

- High speed switching

### Marking



### Maximum ratings and characteristics

- Absolute maximum ratings (at  $T_c=25^\circ\text{C}$  unless otherwise specified )

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	$V_{RRM}$		40	V
Average output current	$I_o$	Square wave duty=1/2 $T_I=116^\circ\text{C}$	3.0	A
Surge current	$I_{FSM}$	Sine wave 10ms, 1shot	110	A
Operating junction temperature	$T_j$		150	$^\circ\text{C}$
Storage temperature	$T_{stg}$		-55 to +150	$^\circ\text{C}$

- Electrical characteristics (at  $T_c=25^\circ\text{C}$  unless otherwise specified )

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	$V_{FM}$	$I_{FM}=3.0\text{A}$	0.59	V
Reverse current	$I_{RRM}$	$V_R=V_{RRM}$	0.1	mA
Thermal resistance	$R_{th(j-l)}$	Junction to lead	18	$^\circ\text{C/W}$

- Mechanical characteristics

Approximate mass		0.035	g
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■ Characteristics

