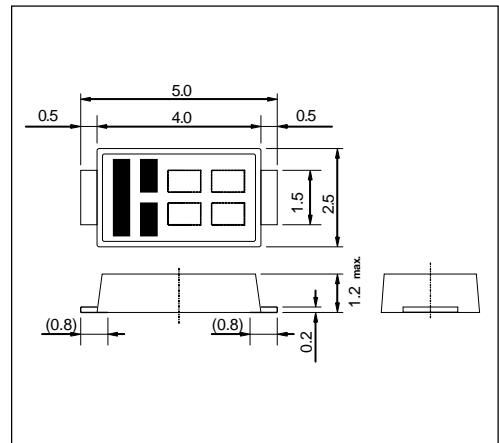


SD863-04 (40V / 3.0A)

SCHOTTKY BARRIER DIODE

Outline drawings, mm



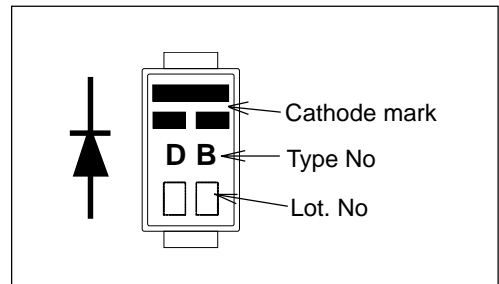
Features

- 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

