

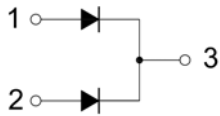
FEATURES

- Small Surface Mounting Type
- Low Forward Voltage
- Low Reverse Current
- High Reliability

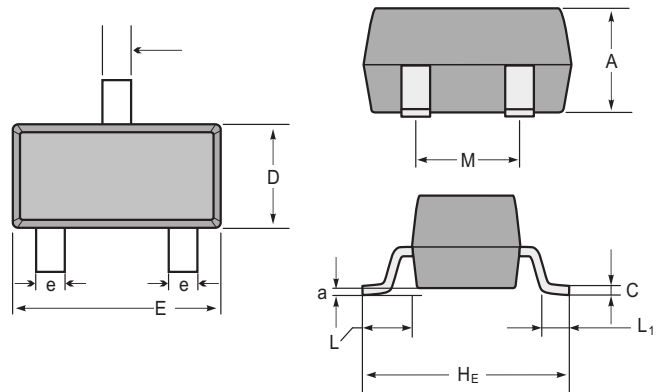
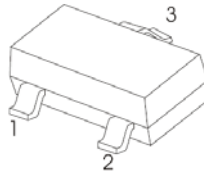
APPLICATIONS

- General Rectification

MARKING: D3Q



SOT-23



SOT-23 mechanical data

UNIT		A	C	D	E	H _E	e	M	L	L ₁	a
mm	max	1.1	0.15	1.4	3.0	2.6	0.5	1.95	0.55 (ref)	0.36 (ref)	0.0
	min	0.9	0.08	1.2	2.8	2.2	0.3	1.7			0.15
mil	max	43	6	55	118	102	20	77	22 (ref)	14 (ref)	0.0
	min	35	3	47	110	87	12	67			6

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{RRM}	Peak Repetitive Reverse Voltage	40	V
V _{RWM}	Working Peak Reverse Voltage		
V _{R(RMS)}	RMS Reverse Voltage	28	V
I _O	Continuous Forward Current	400	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current@t=8.3ms	2	A
P _D	Power Dissipation	250	mW
R _{θJA}	Thermal Resistance from Junction to Ambient	400	°C/W
T _J	Junction Temperature	125	°C
T _{stg}	Storage Temperature	-55~+150	°C

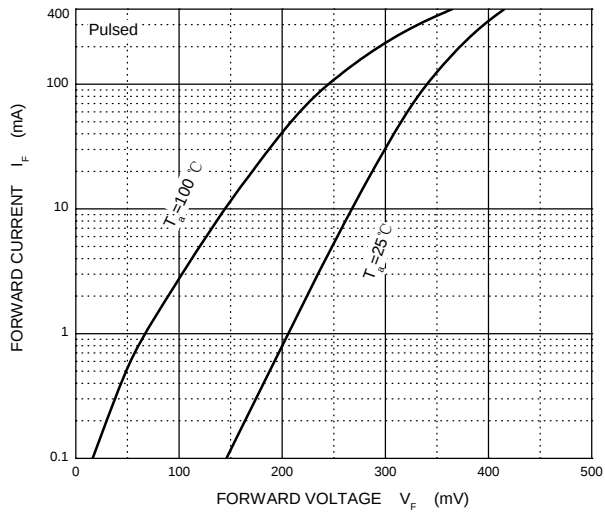
RB495D

ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$ unless otherwise specified)

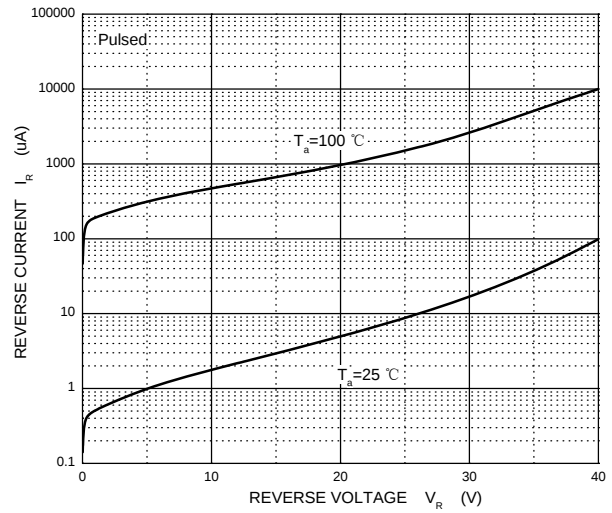
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=100\mu\text{A}$	25			V
Reverse current	I_R	$V_R=25\text{V}$			70	μA
Forward voltage	V_F	$I_F=10\text{mA}$			0.3	V
		$I_F=200\text{mA}$			0.5	

RATING AND CHARACTERISTIC CURVES (RB495D)

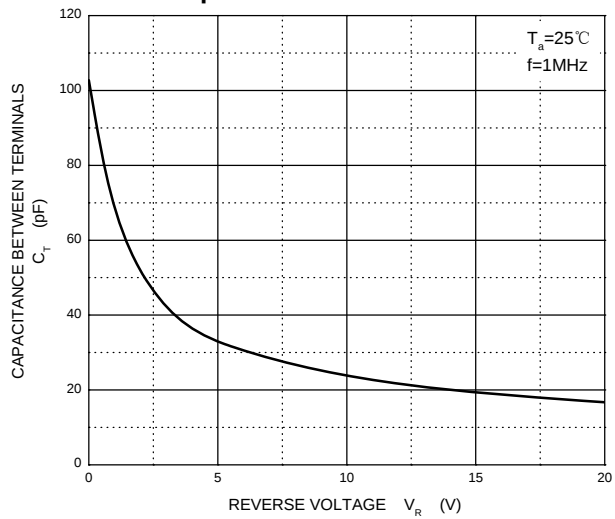
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

